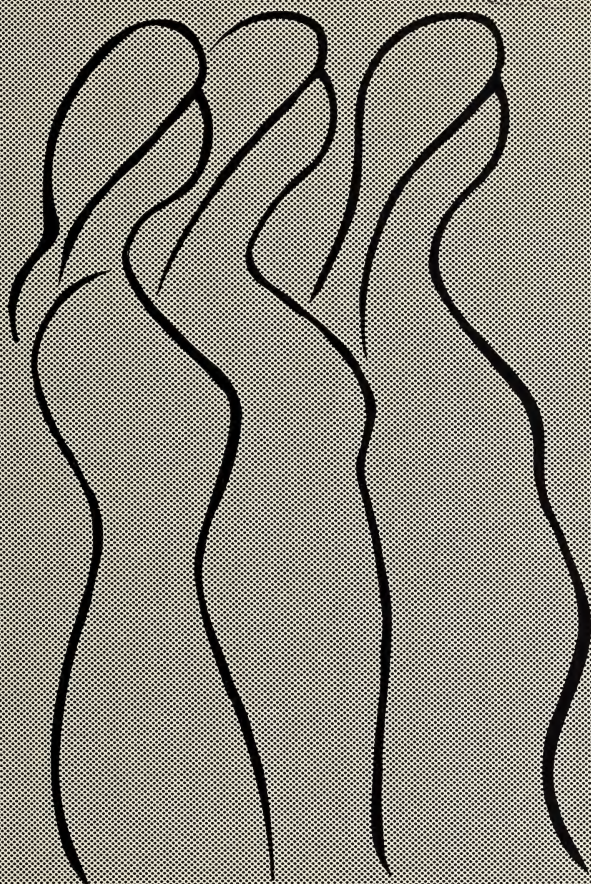


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**Reproductive Health:
Pregnancy Outcomes
Alberta, 1985/86-1995/96**

REPORT

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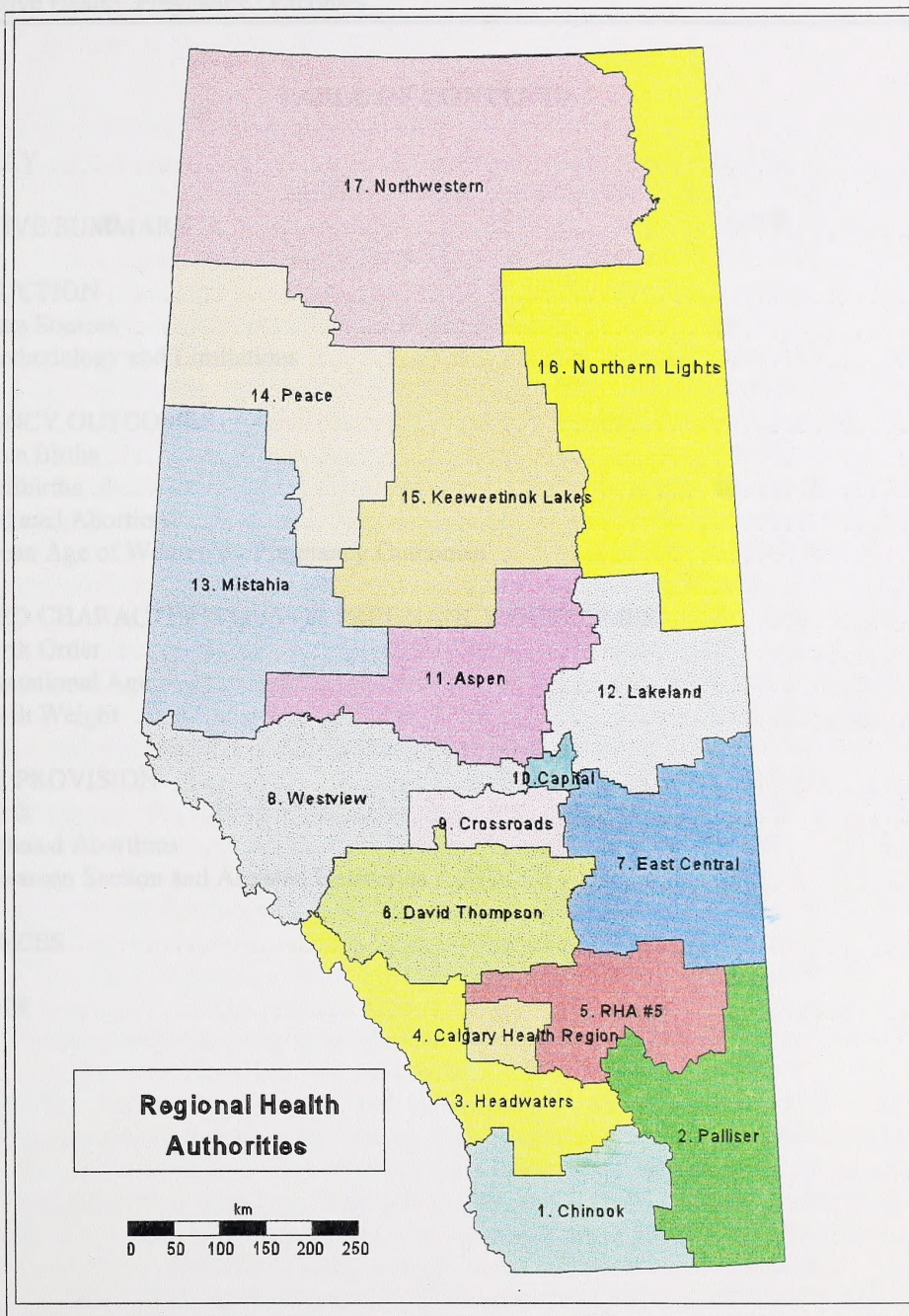


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GLOSSARY

Age: age at the last birth date preceding the event.

(Statistics Canada, Births and Deaths, 1995)

Age-specific fertility rate: number of live births per 1,000 women in a specific age group.

(Statistics Canada, Births and Deaths, 1995)

Abortion: termination of pregnancy before the fetus is viable.

Spontaneous: abortion occurring naturally.

Induced: abortion brought on intentionally by medication and instrumentation.

(Encyclopaedia and Dictionary of Medicine, Nursing, and Allied Health)

Birth or live birth: the complete expulsion or extraction from the mother, irrespective of the duration of the pregnancy, of a fetus in which, after expulsion or extraction, there is breathing, beating of the heart, pulsation of the umbilical cord or unmistakable movement of voluntary muscle, whether or not the umbilical cord has been cut or the placenta attached.

(Alberta Vital Statistics Act, RSA 1980 cV-4 s1)

Birth weight: first weight of the fetus or newborn obtained after birth, expressed in grams.

(Statistics Canada, Births and Deaths, 1995)

Crude birth rate (CBR): number of live births per 1,000 population.

(Statistics Canada, Births and Deaths, 1995)

Fiscal year: from April 1 this year to March 31 the next year.

Frequency: number of events or cases in a category.

General fertility rate (GFR): total number of live births per 1,000 women aged 15-49.

(Statistics Canada, Births and Deaths, 1995)

Gestation period: interval, in complete weeks, between the first day of the last menstrual period of the mother to the date of removal of fetus from the mother. For cases with unknown date of last normal menses, gestation period is based on clinical estimation. Pre-term refers to a period of gestation less than 37 full weeks; term, 37 to 42 complete weeks; and post-term, more than 42 weeks.

(Statistics Canada: Therapeutic Abortions, 1994; Births and Deaths, 1995)

Low birth weight (LBW): birth weight is less than 2,500 grams.

(Statistics Canada, Births and Deaths, 1995)

Mean: the arithmetic average of a set of observations, the sum of scores divided by the number of scores.

Median: the middle value in a set of values that have been arranged in order from highest to lowest.

Multiple birth: birth in which more than one infant is born, including live births and stillbirths.

(Statistics Canada, Births and Deaths, 1995)

Rate: the number of events occurring in a population divided by the size of the population.

Stillbirth: the complete expulsion or the extraction from the mother after at least 20 weeks' pregnancy, or after attaining a weight of 500 grams or more, of a fetus in which, after the expulsion or extraction, there is no breathing, beating of the heart, pulsation of the umbilical cord or unmistakable movement of voluntary muscle.

(Alberta Vital Statistics Act, RSA 1980 cV-4 s1)

Total fertility rate (TFR): average number of children a woman can expect to have in her lifetime, based on the fertility rates of a given year. It is equal to the sum of the age-specific fertility rates (aged 15 to 49).

(Statistics Canada, Births and Deaths, 1995)

EXECUTIVE SUMMARY

This report is a consolidation of information on reproductive health, with respect to pregnancy outcomes in Alberta. Some of the data had been provided previously through several sources including the Therapeutic Abortion Report, and several ad-hoc reports designed to support regional health planning.

In this report, data on live births, stillbirths and induced abortions referred to collectively as pregnancy outcomes, are presented for the fiscal years 1985/86 through 1995/96. Changing patterns in maternal age, gestational age and infant birth weight are examined. A service provision perspective on live births and induced abortions with national comparative data are also included. Health regional data are provided for selected characteristics of pregnancy outcomes.

In Alberta, the number of live births has decreased steadily over the past 11 years. In 1985/86, there were 43,328 live newborns, while in 1995/96 the number dropped to 38,068. The crude birth rate has also dropped considerably from 17.9 births per 1,000 population in 1985/86 to 13.9 in 1995/96. Even with this decline Alberta's crude birth rates are still consistently higher than Canadian national rates. The Canadian crude birth rate for 1995 was 12.8 per 1,000 population.

Stillbirth is an relatively infrequent event with considerable variation occurring from year to year. There is no consistent long term trend over the time period examined.

In 1995/96, there were 249 stillborns and the stillbirth rate was 6.5 per 1,000 total births.

The number of reported induced abortions has increased from 6,356 in 1985/86 to 8,694 in 1995/96. The rate increased from 1990/91 to 1993/94 followed by a decrease for the most recent two years. The induced abortion rate was 11.7 per 1,000 women aged 15-49 for 1995/96. For 1994/95, the abortion rate in Alberta (12.3) was lower than that for Canada (13.6).

For the past 11 years, in Alberta, the age-specific fertility rates have decreased for all age groups under 30 and increased for women 30 and older. Age-specific abortion rates show decreases over the last 3 years, with most noticeable recent decrease being in the 15-19 age group. Estimated teenage pregnancy rates (live births, stillbirths and induced abortions) have declined for the last three years, while the rates for women aged 30 and over have increased.

Birth weight is an important determinant of infant health. In Alberta, there has been a decrease in the proportion of infants with low birth weight from 1990/91 to 1994/95. However, in 1995/96 the rate increased and reached the highest level of the examined time period. The rates of low weight births in Alberta are generally higher than the Canadian national rates. In 1995/96, the Alberta low birth weight rate was 6.0% compared to the Canadian rate of 5.6%.

In Alberta, approximately 65% low birth

weight infants are pre-term. The changing pattern of pre-term births resembles that of the low birth weight rate. In 1995/96, the proportion of pre-term births reached the highest level at 7.0% of total live births for the time period under study. This rate is comparable to the national rate for 1995, which is 7.0%.

Family size is decreasing as reflected by reduced total fertility rates. In Alberta, the total fertility rate has dropped to 1.78 per woman in 1995/96 from 1.84 per woman in 1985/86, although the rates were still higher than the corresponding Canadian rates. The rate for Canada was 1.64 per woman in 1995.

The mean age of women having induced abortions is approximately 2.5 years younger than women having live births or stillbirths. The age of women at end of pregnancy has increased consistently for all three pregnancy outcomes examined in this report. In 1995/96, the average age of women having induced abortions, live births and stillbirths are 25.0, 27.9 and 28.6, respectively. The mean maternal age of live birth for Alberta is about 0.4 years younger than that for Canada.

There is a trend toward delayed childbearing in Alberta and throughout Canada. In the past 11 years, the mean age of mothers at first birth has increased by 1.3 years (from 26.5 to 27.9) in Alberta. This is a slightly smaller increase than that for Canada which is 1.5 years (from 27.3 to 28.8). The trend toward delayed motherhood may have implications for women as well as infants. Studies have shown that an older maternal

age is associated with higher risk of stillbirth, congenital anomalies and low birth weight.

Data from this report show higher rates of low birth weight, stillbirths and pre-term births among older (>35) maternal age groups. Thus, the increase of maternal age in general may attenuate the reduction or contribute to the increase of these adverse pregnancy outcomes.

There are indications of increasing home births and midwife attended deliveries, although the majority of the deliveries occur in hospitals. For most of the deliveries, medical doctors are the primary birth attendant.

Since the opening of the abortion clinics in Alberta in 1991/92, about 26% of the total induced abortions are performed in these clinics. The percentage of procedures performed in rural hospitals has been reduced from 20% in 1986/87 to 6% in 1995/96. Most induced abortions (92%) happen before 12 gestation weeks, and less than 3% occur after 16 gestation weeks.

For the past 11 years, in Alberta, cesarean section rates have ranged from 17.3 per 100 hospital deliveries in 1987/88 to 15.6 in 1993/94. There is a mild trend toward a decrease. The cesarean section rates for Alberta are generally lower than those for Canada. In 1993, the Canadian rate was 17.6. In Alberta, there has been a considerable reduction in episiotomy and the use of forceps, and an increase in vacuum extraction and induction. These seem to suggest a shift in medical practice patterns.

Regional differences are observed for some aspects of pregnancy outcomes such as total fertility rates, general fertility rates, low birth weight rates and cesarean section rates. For instance, higher total fertility rates and general fertility rates are observed for regions 17 and 15. Cesarean section rates are high for regions 16 and 14, while rates in regions 1, 2, 17 and 15 are relatively low.

INTRODUCTION

This report is a consolidation of information on reproductive health, with respect to pregnancy outcomes. Some of the data had been provided formerly through several sources including the Therapeutic Abortion Report, and several ad-hoc reports designed to support regional health planning.

This report presents data on selected pregnancy outcomes in Alberta for the fiscal years 1985/86 through 1995/96. It contains information on live births, stillbirths and induced abortions across different maternal age groups and health regions. Information is provided in areas associated with pregnancy outcomes such as birth order, gestational age and birth weight. Also, description of the related service provision is included.

Regional data are provided for the last three fiscal years, while provincial trend data are presented for 11 years. Where possible Canadian national comparison data are also presented.

Data Sources:

- Vital Statistics Birth Registration Files, Alberta Registries, Municipal Affairs.
- Clinic Files, Alberta Health.
- Hospital Morbidity Files, Alberta Health.
- Alberta Health Care Insurance Plan Registration File, Alberta Health.
- Publications from Statistics Canada on Births and Therapeutic Abortions.

Methodology and Limitations

The statistical analyses in the report are mostly descriptive. Frequencies, rates, percentages, means and medians are generated where applicable. All of the time trends are tested using linear regression models. Some trends are shown as lines of best fit.

Live birth and stillbirth information is derived from the Vital Statistics Birth Registration Files. Registration of births in Alberta is fairly complete, because of legal reporting requirements. However, births to Albertans in other provinces or countries are not captured. Births or stillbirths to non-Alberta residents occurring in Alberta have been excluded from all of the analyses.

The Clinic Files contain information on women undergoing induced abortion in Alberta. Health region information is not available in these files and regional comparisons on induced abortions are provided only from a site of service perspective. Abortion services provided to non-Alberta residents are not included in the analyses. In earlier publications from Alberta Health, induced abortions have been referred to as therapeutic abortions.

Cesarean section and assisted delivery data are taken from hospital records that are in the Hospital Morbidity Files. Rates are calculated based on hospital deliveries only. Home births are not included in total deliveries in this section. Since only primary, secondary, and tertiary ICD-9-CM

(*International Classification of Disease-9th Revision-Clinical Modification*) diagnostic and procedure codes were available across the period 1985/86 to 1991/92, the diagnostic and procedure criteria were based on the first three codes only. For data after 1991/92, 16 diagnostic and 10 procedure fields are available, but for consistency, only the first three have been used across the 11 year period. The detailed criteria used to derive total number of hospital deliveries, cesarean section and other assisted deliveries are listed in the end note of this section.

The national comparison data are from Statistics Canada publications on births and therapeutic abortions.

Populations used for the calculations of rates are derived from the Alberta Health Care Insurance Plan Registration Files. They are estimated at March 31, as viewed at September 30 of each year.

The fiscal year period is used instead of the calendar year to make this consistent with other reports generated from administrative data sources. However, the Canadian national data are based on calendar year. Thus the comparisons between Canada and Alberta are approximate.

With rare events (e.g., stillbirth) or detailed break down (e.g., live birth by age, region and year), rates may be based on small numbers and are therefore not reliable. Caution should always be exercised in interpreting these rates. Because of the differences in definitions and updates of the databases, the statistics in this report may not be exactly the same as the ones

published by Alberta Health previously.

Spontaneous abortions and other pregnancies with abortive outcomes such as ectopic and molar pregnancies are not captured in this report. In future reports, efforts will be made to include this information. In the previous publications of Therapeutic Abortions from Alberta Health, complications and procedures were reported. Close examination indicates that some of these categorizations do not reflect the current situations anymore and are excluded from this report. Efforts will be made to collect appropriate information on complications and procedures in the future. Information on reproductive mortality can be found in the Alberta Perinatal and Neonatal Statistics and Maternal Mortality report from the Alberta Medical Association.

Note: ICD-9-CM criteria for deriving hospital deliveries and assisted deliveries from the Hospital Morbidity Files:

Deliveries in hospital

Diagnostic codes 640-648 if 5th digit=1 or 2
or 650
or 651-676 if 5th digit=1 or 2
or V27
or procedure codes 72.0 to 74.99

Non-assisted Vaginal Deliveries

Diagnostic code 650

Cesarian Section

Procedure 74

Episiotomy

Procedure 72.1 or 72.21 or 72.31 or 72.71 or 73.6

Forceps

Procedure 72.0 or 72.1 or 72.2 or 72.21 or 72.29 or 72.3 or 72.31 or 72.39

Vacuum extraction

Procedure 72.7

Induction

Procedure 73.01 or 73.1 or 73.4

Assisted Breech Deliveries

Procedure 72.5 or 72.6

Other Assisted deliveriesProcedure 72.8 or 72.9 or 73.2 or 73.5 or
73.8 or 73.9

PREGNANCY OUTCOMES

Live Births

Birth Rate

The total number of live births in Alberta has decreased steadily over the past 11 years. In 1985/86 there were 43,328 live newborns; in 1990/91, 42,333; and the number dropped to 38,068 in 1995/96. In 11 years, the total number of live births has declined by 12%. Considering the increase of population in Alberta over the same time period, the change in birth rates is even more pronounced.

Crude birth rate (CBR: number of live births per 1,000 population) and general fertility rate (GFR: number of live births per 1,000 women aged 15-49) are the most commonly used measures for birth rate. GFR is less influenced by the age and sex structure of a population and it is considered to be a better measure for demonstrating changes in birth rates over time as well as across geographic regions.

In Alberta, both the CBR and GFR have decreased consistently over the past 11 years, except for a slight increase in 1989/90 (Figure 1, Figure 2). Over this time period, GFR and CBR declined by 22% and 24%, respectively. The more pronounced reduction observed in CBR may be due to the fact that "baby boomers" (people born between 1946 - 1964) are gradually moving through their childbearing age, and also due to the general trend towards an aging population (Figure 3).

Figure 1 Crude birth rate, Alberta, Canada, 1985/86 - 1995/96

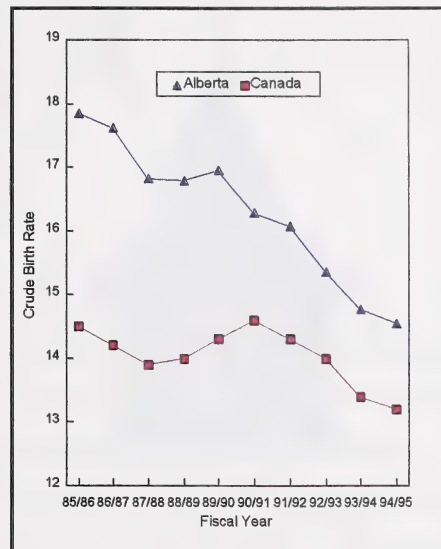


Figure 2 General fertility rate, Alberta, 1985/86 - 1995/96

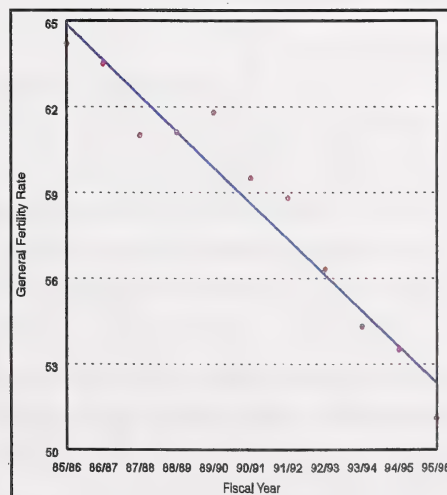
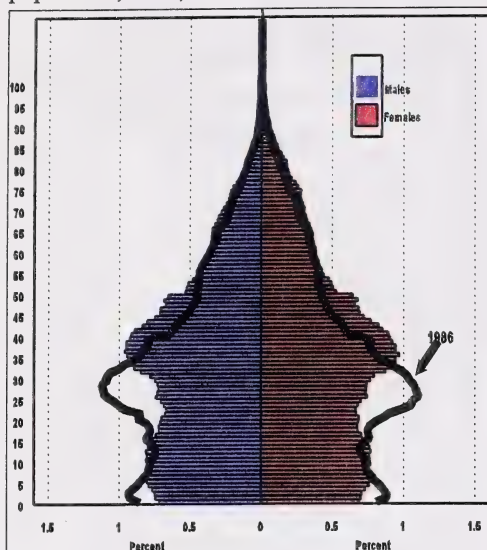


Figure 3 Age and sex distribution of Alberta population, 1986, 1996



The CBRs in Alberta are generally higher than Canadian rates. The trends toward decreased birth rates, nationally and provincially, are similar, although the CBRs appear to drop faster in Alberta (Figure 1).

Maternal Age

In Alberta, the age of the mother at delivery is rising. This is shown in both Figure 4 and Figure 5. Age-specific fertility rates (number of births per 1,000 women in each age group) rose among women in their thirties and forties, but declined at a younger age (Figure 4).

In terms of percent distribution of live birth across mothers' age groups, two cross-overs occurred in the past 11 years (Figure 5). Women aged 30 to 34 edged ahead of

Figure 4 Age-specific fertility rate, Alberta, 1985/86, 1990/91, 1995/96

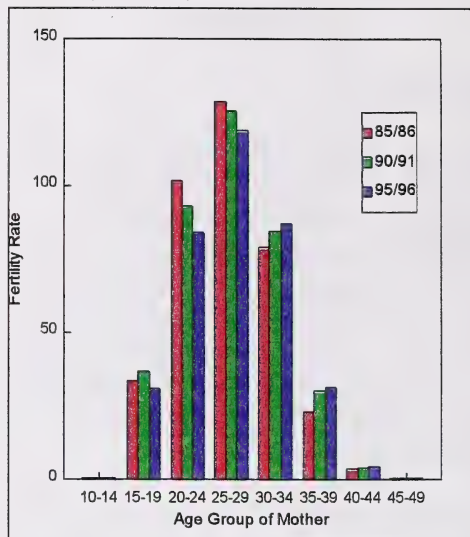
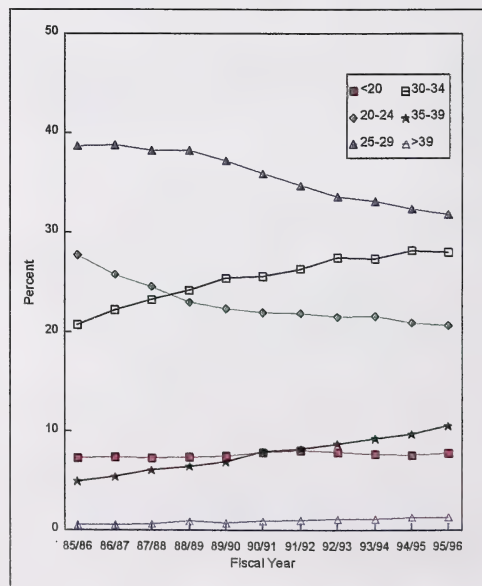


Figure 5 Percent distribution of live birth by age group of mother, Alberta, 1985/86 - 1995/96



women aged 20-24 in 1988/89. In 1991/92, births to women aged 35-39 exceeded those to women younger than 20 for the first time. Thus there are more births to older women now than before.

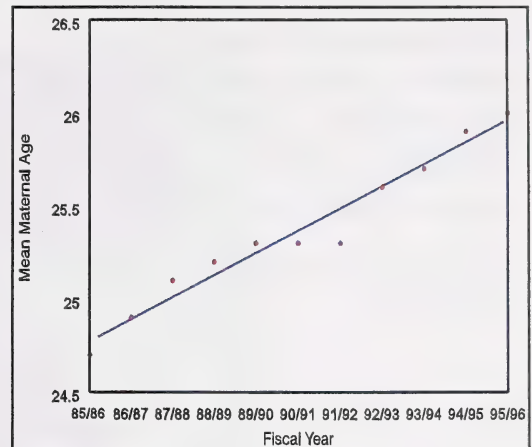
The increasing maternal age effect may be explained partly by the aging of baby boomers. That is, there is a greater number of women in their late thirties and forties compared to a decade ago. Therefore, we may expect this effect to diminish somewhat after the baby boomers eventually move out of their reproductive years.

Another reason for the increasing maternal age effect may be due to the trend towards delayed childbearing. This is clearly indicated by the increasing maternal age at first birth (Figure 6). In Alberta, the average age of a mother at first birth has risen from 24.7 in 1985/86 to 26.0 in 1995/96. More and more women are postponing their motherhood to later years of their life.

To a certain degree, the trend for delayed childbearing may be influenced by women pursuing advanced education and careers. Although, on average, childbearing cannot be delayed forever, the trend may well persist in the near future (Wadhera & Millar, 1996).

This certainly has some implications on women's health as well as infants' health. Studies have shown that the risk of complications of pregnancy increases when mother's age exceeds 30, and cesarean section rates are higher among older women (Millar, Nair & Wadhera, 1996). Older maternal age is known to be associated with

Figure 6 Mean age of mother at first live birth, Alberta, 1985/86 - 1995/96



higher risk of other adverse pregnancy outcomes, such as stillbirth, congenital anomaly and low birth weight birth (Wadhera & Millar, 1996; Maroulis, 1991). Data from this document also indicate the association between older maternal age and higher stillbirth rate and low birth weight rate (see the *Stillbirth* and the *Birth Weight* sections of this report).

Regional Differences

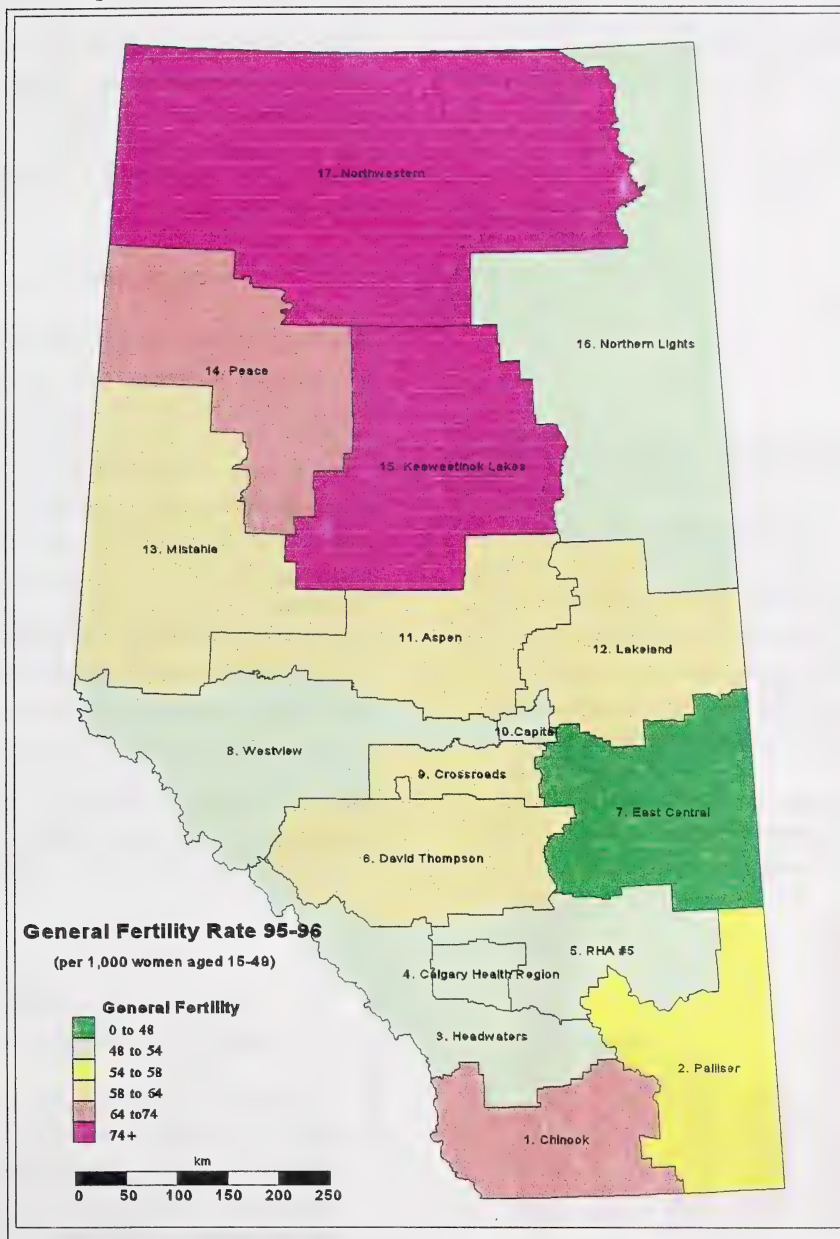
In the past 11 years, the GFRs for all Alberta's 17 health regions have dropped consistently following the same pattern as that of the province. However, there are considerable variations in fertility among regions. For instance, in 1995/96, region 17 had the highest GFR (123), while region 7 had the lowest (43). GFRs for regions 10 and 4 are also relatively low (47 for both regions) (Map 1).

In terms of the age-specific fertility rates,

the 25 to 29 age group has the highest rate for all regions in the last three years. In 1995/96, fertility rates of age group 20-24 are lower than that of the 30-34 group in regions 3, 4 and 10, and the opposite is true for other regions. This seems to suggest that, in general, the practice of delaying childbirth is more prevalent in large cities than in small cities and rural areas.

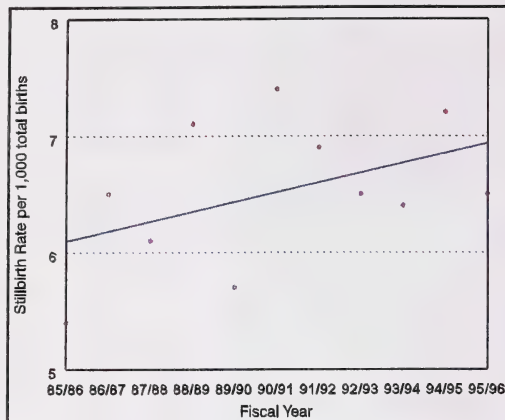
Note: For complete figures, see tables A1 to A5 in the Appendix.

Map 1 General fertility rate by residence RHAs, Alberta, 1995/96



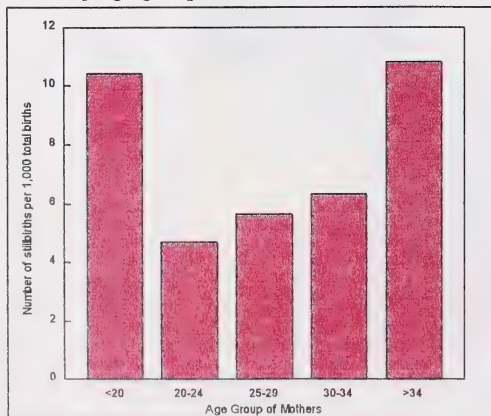
Stillbirths

Figure 7 Stillbirth rate per 1,000 total births, Alberta, 1985/86 - 1995/96



The number of stillbirths occurring in Alberta has fluctuated over the past 11 years ranging from 237 to 315. Figure 6 shows stillbirth rate per 1,000 total births. The rate for 1985/86 is the lowest while rates for 1988/89, 1990/91 and 1994/95 are among the highest rates. The linear trend over the

Figure 8 Number of stillbirths per 1,000 total births by age group of mother, Alberta, 1995/96



period under study is not statistically significant.

The proportion of stillbirth over total birth varies across maternal age groups. Figure 8 shows that, in 1995/96, women younger than 20 and older than 34 are at higher risk of having stillbirths than women aged between 20 to 34.

Induced Abortions

The total number of reported induced abortions has increased over the last 11 years from 6,356 in 1985/86 to 8,694 in 1995/96. The induced abortion rate per 1,000 women of childbearing age (15-49) shows an increase from 1990/91 to 1993/94 followed by a decrease for the most recent two years (Figure 9). The overall trend for the period under study shows an increase. However, the downturn apparent in the last two years may be the start of a new general trend, but it is too early to tell.

Figure 9 Induced abortion rate per 1,000 women aged 15-49, Alberta, 1985/86 - 1995/96

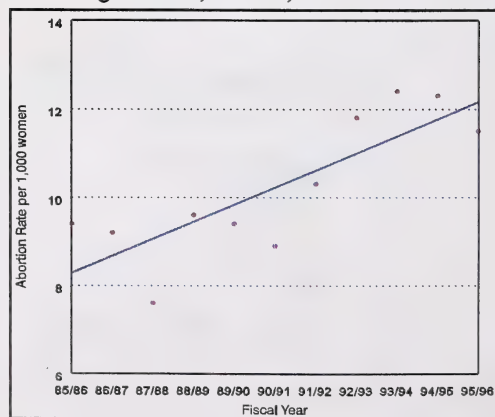


Figure 10 Age-specific induced abortion rate per 1,000 women in each age group, Alberta, 1985/86 - 1995/96

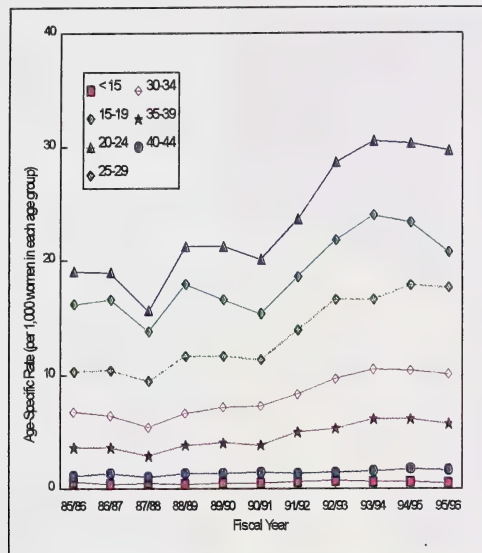
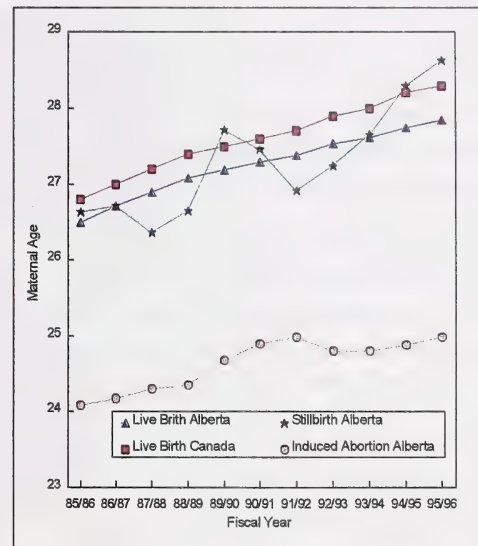


Figure 10 presents the age-specific induced abortion rates. The highest rates are for women aged 20-24. The most dramatic decrease in recent rates is demonstrated in the 15-19 age group while the rate for the 25-29 age group is slightly increased over the same time period. The induced abortion rates for the youngest (under 15) and oldest (over 40) groups remain low over the past 11 years.

Mean Age of Women by Pregnancy Outcomes

The average age of women at the end of pregnancy is shown in Figure 11. Women having induced abortions are, on average, 2.5 years younger than those who deliver. The trend of increasing age over time is evident for all groups, although the average

Figure 11 Mean age of women at end of pregnancy, Alberta, Canada 1985/86 - 1995/96



age of women with stillbirth is not stable due to the small number of events.

The mean maternal age at live births for Canada is about 0.4 years older than that for Alberta (Figure 11).

Note: For complete figures, see tables A6 to A10 in the Appendix.

SELECTED CHARACTERISTICS OF PREGNANCY OUTCOMES

Birth Order

In the last 11 years, there is no appreciable change in the percent distribution of live birth order. Among live births, approximately 40% are first births; 35% are second; and 16% are third order births. To a certain extent, birth order reflects average family size in the population, and generally, more higher order births indicates larger family size. Because percent distribution of birth order is influenced by the age structure of the female population, it is not always a sensitive indicator of family size.

Total fertility rate (TFR) is a better measure of expected family size. TFR is the average number of children a woman can be expected to have in her lifetime, based on the fertility rates of a given year. In Alberta, there is a trend of decreasing TFR since 1989/90 suggesting a downturn in the number of children an average family has (Figure 12). The same trend is evident for Canada, although the national TFRs are generally lower than those for Alberta.

There are also some regional differences in TFRs within Alberta. Map 2 shows that in 1995/96 regions 17 and 15 have the highest rates while rates in regions 7, 3, 4 and 10 are among the lowest. Thus, we can say that families in regions 17 and 15 are having more children than families in other regions.

Gestational Age

Gestational age is the time period (in weeks) between the first day of the last menstrual

Figure 12 Total fertility rate, Alberta, Canada, 1985/86 -1995/96

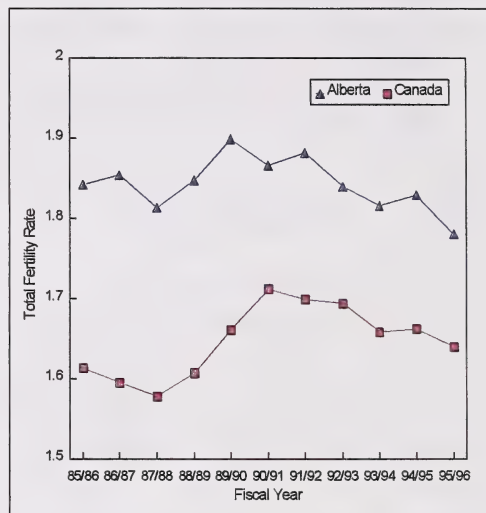
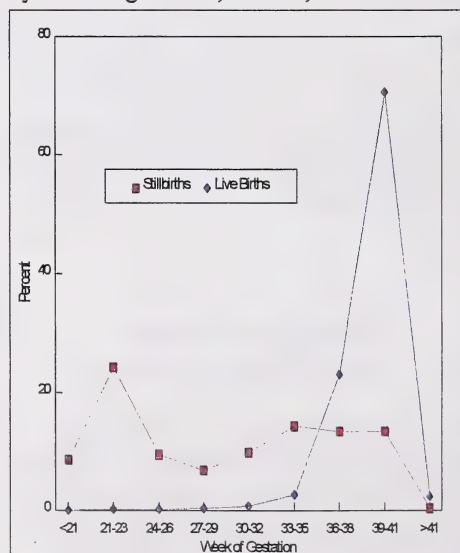
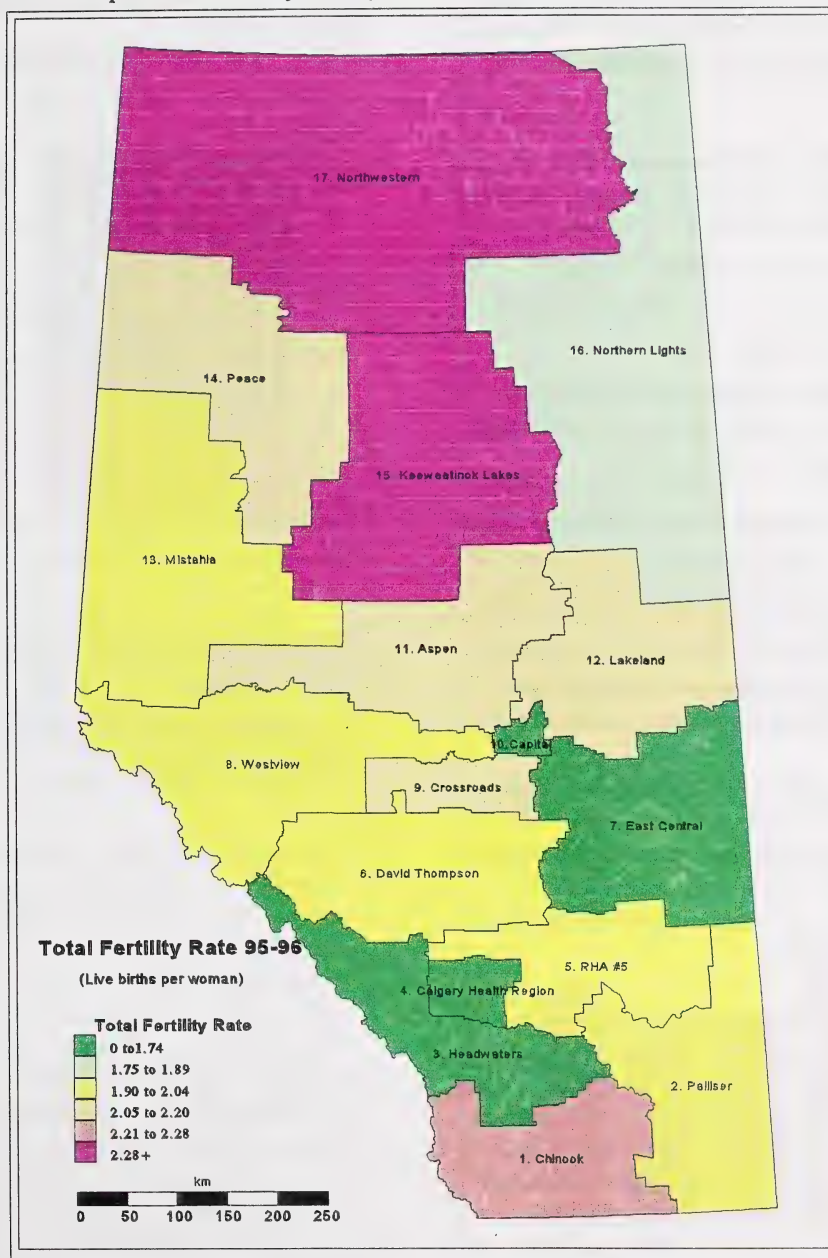


Figure 13 Percent live births and stillbirths by week of gestation, Alberta, 1995/96



Map 2 Total fertility rate by residence RHAs, Alberta, 1995/96



period of the mother and the day of delivery. Pre-term refers to births less than 37 full gestation weeks; term is 37 to 42 full weeks; and post-term is more than 42 full weeks.

There are logical differences in the timing of birth outcomes. While the majority of live births occurs between 36 to 42 weeks, stillbirths are more spread out (Figure 13). Most induced abortions happen before 12 gestation weeks and only a few abortions occur after 17 weeks. There seems to be a tendency that the older the age, the more likely the abortions being done within eight weeks of gestation (Figure 14).

Pre-term infants are usually at greater risk of a variety of health problems. In Alberta, the pre-term birth rate has increased by 11% over the past 11 years, from 6.3% in 1985/86 to 7.0% in 1995/96 (Figure 15). The pre-term birth rate for Canada was 7.0% which is comparable to Alberta's.

Birth Weight

Birth weight is an important determinant of infant health. Low birth weight (LBW, < 2,500 grams) is associated with life long health problems.

In Alberta, the percent of LBW infants varies over the past 11 years ranging from 5.4% to 6.0%. There is a trend of an increasing rate in the earlier years followed by a decrease from 90/91 to 94/95, but in 95/96 the rate increased again and reached the highest level in the examined time period (Figure 15). The LBW rates for Alberta are generally higher than national

Figure 14 Percent distribution of gestation week at induced abortion by age group, Alberta, 1995/96

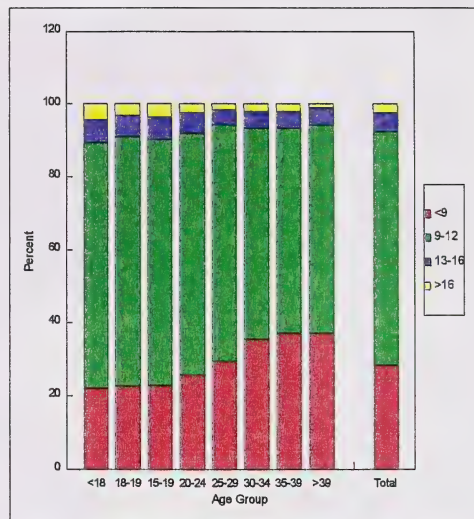
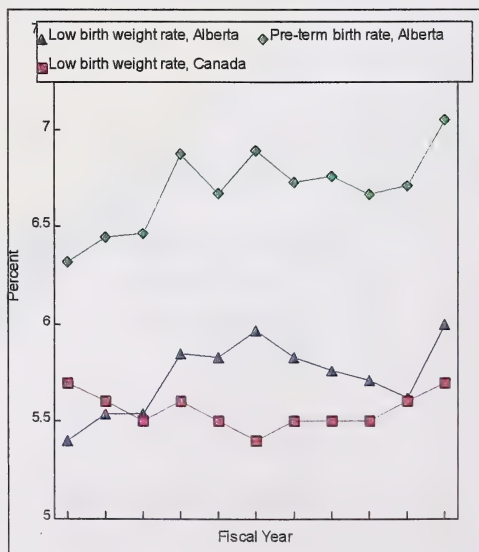


Figure 15 Pre-term birth rate and low birth weight rate per 100 live births, Alberta, Canada 1985/85 - 1995/96



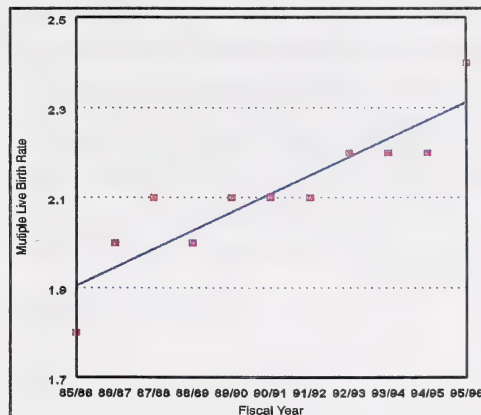
rates and the change patterns are also different (Figure 15).

Prior to 1989/90, no live birth was registered as weighing less than 500 grams. Since then, the number of live newborns in this category has been increasing steadily. This may be a reflection of changes in registration and reporting (Svenson & Schopflocher, 1997) as well as improvements in perinatal care. With new advances in medical technology, it is possible to resuscitate some extremely low birth weight infants who might have been classified as stillbirths in the past (Joseph & Kramer, 1996; Cartlidge & Stewart, 1995).

In Alberta, about 55% of pre-term births are LBW infants, while among term births only 2.2% are LBW. Pre-term LBW infants comprise about 65% of the total LBW births. Figure 15 shows that the pattern of change over time in LBW parallels the change in pre-term births, indicating that the change of LBW rate, to a certain extent, is driven by the change in pre-term births.

LBW and pre-term birth rates are much higher among multiple births. In Alberta, 44-56% of the multiple live births are pre-term and 46-53% of the multiple live births are LBW. In contrast, among single live births, the LBW rate is about 5% and the pre-term rate is about 6%. Approximately 2% of all live births are multiple births and this rate is increasing steadily (Figure 16). However, the increase in the multiple birth rate is not substantial in magnitude and LBW multiple births only constitute about 20 % of the total LBW infants. But because of the high LBW rate among multiple births,

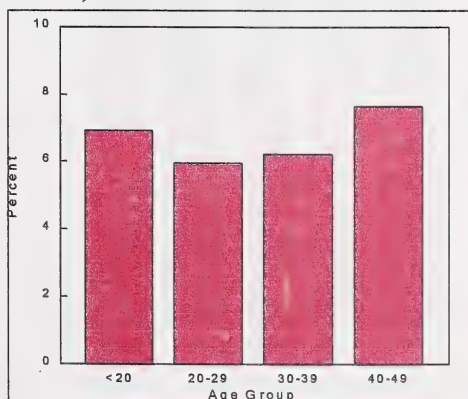
Figure 16 Multiple live birth rate per 100 total live births, Alberta, 1985/86 - 1995/96



the increase of multiple births will have a negative impact on the LBW rate.

Figure 17 shows the percentage of LBW newborns by age group of mother. Generally, women in the youngest (<20) and the oldest (>40) age groups have higher LBW rates than women aged 20-40.

Figure 17 Percent of low birth weight (<2,500 g) live newborns by age group of mother, Alberta, 1995/96



This is consistent with the research findings that younger and older maternal age is associated with a higher risk of LBW. Research also shows that poverty, low educational attainment and inadequate prenatal care are risk factors for LBW (Kliegman, Rottman & Behrman, 1990; Mustard, 1991; Kessel et al. 1984).

Note: For complete figures, see tables A11 to A20 in the Appendix.

SERVICE PROVISION

Birth

In Alberta, about 99% of the infants are born in hospitals, while less than 1% of births occur in homes. However, in the last five years, the number of home births has

been increasing steadily (Figure 18). The number of midwife-attended deliveries has also increased (Figure 19), although over 99% of total births are delivered by doctors. The data reported here are on the primary birth attendant, thus, the involvement of midwives in the delivery process may be underestimated.

Figure 18 Home birth rate per 100 live births, Alberta, 1985/86 - 1995/96

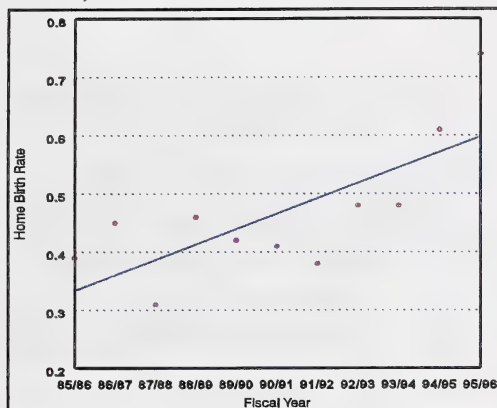
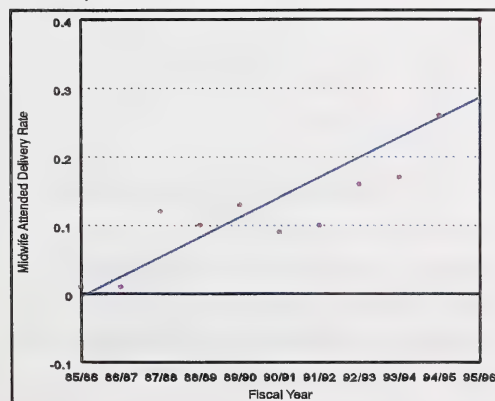


Figure 19 Rate of midwife-attended (as primary birth attendant) deliveries per 100 live births, Alberta, 1985/86 - 1995/96



Induced Abortions

Alberta abortion clinics opened in 1991/92. In that fiscal year, the abortion clinics took on about 15% of total procedures performed. The percentage of abortions performed in clinics has increased and stabilized in the past three years at about 26% (Figure 20). Prior to the opening of the clinics, the rural hospitals were performing 10-20% of the total procedures. Since

Figure 20 Percent distribution of induced abortion by facility, Alberta, 1991/92 - 1995/96

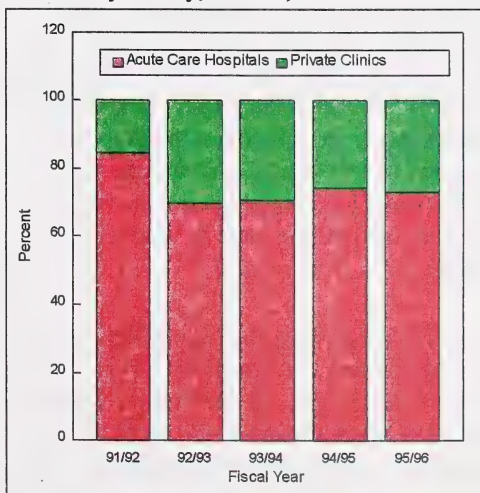
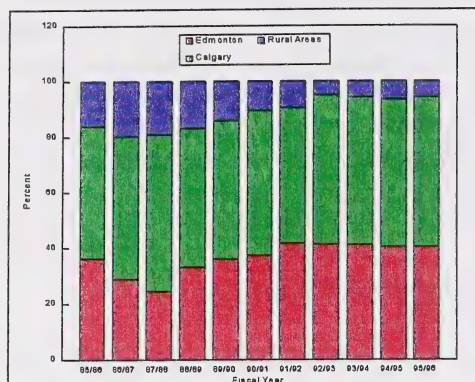


Figure 21 Percent distribution of induced abortion by facility region, Alberta, 1985/86 - 1995/96



1991/92, the number of induced abortions performed in these hospitals declined, and stabilized at around 6% in the past three years (Figure 21).

Cesarean Section and Assisted Deliveries

For the past 11 years, cesarean section rates in Alberta have been declining (Figure 22), although the change in magnitude is not substantial. The rates ranged from 17.3 per 100 hospital deliveries in 1987/88 to 15.6 in 1993/94. The cesarean section rates for Alberta are generally lower than those for Canada. In 1993, the Canadian rate was 17.6 which was two points higher than the Alberta rate (Millar, Nair & Wadhwa, 1996).

In Alberta, non-assisted vaginal deliveries have decreased over the past 11 years (Figure 23). In general, assisted deliveries have increased, however, the types of assisting procedures performed have changed considerably. For instance, there is a drastic decline in the use of episiotomy

Figure 22 Cesarean section rate per 100 hospital deliveries, Alberta, 1985/86 -1995/96

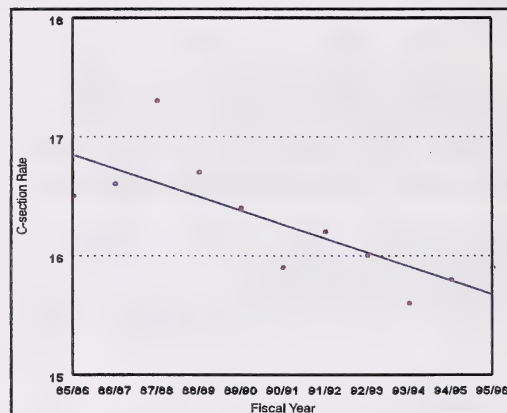
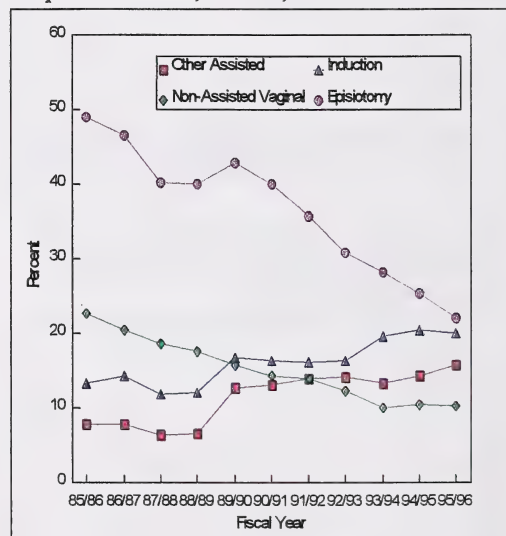
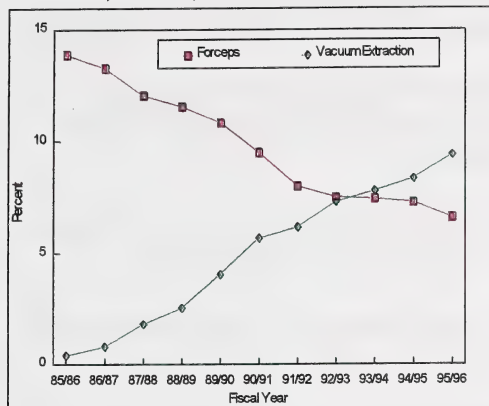


Figure 23 Episiotomy, induction, vaginal delivery and other assisted delivery rates per 100 hospital deliveries, Alberta, 1985/86 -1995/96



procedure, while the use of induction and other assisted procedures has increased (Figure 23). In the mid 1980s, forceps were used much more frequently than today. Although vacuum extractions were seldomly performed in the earlier days, its use in

Figure 24 Assisted delivery rates for forceps and vacuum extraction per 100 hospital deliveries, Alberta, 1985/86 - 1995/96



recent years has exceeded the use of forceps (Figure 24). These changes probably indicate a shift in medical practice patterns.

Note: For complete figures, see tables A21 to A28 in the Appendix.

REFERENCES

- Cartlidge, P.H.T. & Stewart, J.H. 1995. Effect of changing the stillbirth definition on evaluation of perinatal mortality rates. *The LANCET* Vol. 346 August 19, 486-488.
- Joseph, K. S. & Kramer, M. S. 1996. Recent trend in Canadian infant mortality rates: Effect of changes in registration of live newborns weighing less than 500 g. *Canadian Medical Association Journal*, 155(8), 1047-1052.
- Kessel, S. S.; Villar, J.; Berendes, H. W. & Nugent, R. P. 1984. The changing pattern of low birth weight in the United States 1970 to 1980. *Journal of American Medical Association*, April, Vol. 251, No. 15, 1978-1982.
- Kliegman, R.M.; Rottman, C.J. & Behrman, R.E. 1990. Strategies for the prevention of low birth weight. *American Journal of Obstetrics and Gynaecology*. April, 1073-1083.
- Maroulis, G. B. 1991. Effect of aging on fertility and pregnancy. *Seminars In Reproductive Endocrinology*. Vol. 9, No. 3, 165-175.
- Millar, W.J.; Nair, C. & Wadhera, S. 1996. Declining cesarean section rates: A continuing trend? *Health Reports*. Vol. 8, No. 1, 17-24.
- Millar, W. J.; Strachan, J. & Wadhera, S. 1991. Trends in low birthweight Canada 1971-1989. *Health Reports*. Vol. 3. No. 4, 311-325.
- Mustard, C. 1991. *Maternal Demographic Risk Factors and the Incidence of Low Birthweight, Manitoba 1979-1989*. Report number 91-11-04. University of Manitoba.
- Statistics Canada, 1995. *Therapeutic Abortions, 1994* Catalogue No. 82-219-XPB.
- Statistics Canada, 1997. *Births and Deaths, 1995* Catalogue No. 84-210-XPB.
- Statistics Canada, 1996. *Births and Deaths, 1994* Catalogue No. 84-210-XPB.
- Statistics Canada, 1995. *Births and Deaths, 1993* Catalogue No. 84-210-XPB.
- Statistics Canada. 1997. *Births and Deaths, 1995*. Catalogue No. 84-210-XPB
- Svenson, L. & Schopflocher, D. 1997. Infant mortality in Alberta: the effect of the registration of live newborns weighing less than 500 grams. Graph of the Week. No. 42. Alberta Health.
- Wadhera, S. & Millar, W. J. 1996. Pregnancy outcomes. *Health Reports*. Vol. 8, No. 1, 7-15.

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Table A1 Selected Indicators of Pregnancy Outcomes, Alberta, 1985/86 - 1995/96

Indicators	Fiscal Year										
	85/86	86/87	87/88	88/89	89/90	90/91	91/92	92/93	93/94	94/95	95/96
Live Births	43,328	43,082	41,505	41,984	43,281	42,333	42,436	40,990	39,887	39,399	38,068
Crude Birth Rate (per 1,000 population)	17.9	17.6	16.8	16.8	17.0	16.3	16.1	15.4	14.8	14.5	13.9
General Fertility Rate (per 1,000 women aged 15-49)	64.2	63.5	61.0	61.1	61.8	59.5	58.8	56.3	54.3	53.5	51.1
Total Fertility Rate (per 1,000 women)	1,842	1,853	1,813	1,847	1,898	1,865	1,881	1,840	1,816	1,828	1,779
Low Birth Weight Rate (per 100 live births)	5.4	5.5	5.5	5.9	5.8	6.0	5.8	5.8	5.7	5.6	6.0
Pre-term Birth Rate (per 100 live births)	6.3	6.4	6.5	6.9	6.7	6.9	6.7	6.8	6.7	6.7	7.0
Stillbirths	237	284	255	301	248	315	295	267	258	287	249
Stillbirth Rate (per 100,000 women aged 15-49)	35.1	41.9	37.5	43.8	35.4	44.2	40.9	36.7	35.1	39.0	33.4
Stillbirth Rate (per 1,000 total births)	5.4	6.5	6.1	7.1	5.7	7.4	6.9	6.5	6.4	7.2	6.5
Induced Abortions	6,356	6,248	5,206	6,588	6,559	6,319	7,441	8,561	9,074	9,075	8,694
Induced Abortion Rate (per 1,000 women aged 15-49)	9.4	9.2	7.6	9.6	9.4	8.9	10.3	11.8	12.4	12.3	11.7
Cesarean Section Rate (per 100 hospital deliveries)	16.6	16.6	17.3	16.8	16.4	15.9	16.2	16.0	15.6	15.8	15.9

Table A2 Live Births, Stillbirths and Induced Abortions by Alberta Residence, 1985/86-1995/96

Fiscal Year	Live Birth		Stillbirth		Induced Abortions	
	Alberta Residents	Non-Alberta Residents	Alberta Residents	Non-Alberta Residents	Alberta Residents	Non-Alberta Residents
Cases						
85/86	43,328	365	237	8	6,356	45
86/87	43,082	382	284	4	6,248	61
87/88	41,505	392	255	10	5,206	35
88/89	41,984	404	301	11	6,588	91
89/90	43,281	487	248	7	6,559	74
90/91	42,333	475	315	6	6,319	44
91/92	42,436	546	295	11	7,441	108
92/93	40,990	435	267	2	8,561	225
93/94	39,887	474	258	10	9,074	248
94/95	39,399	491	287	2	9,075	198
95/96	38,068	453	249	0	8,694	197
Percent						
85/86	99.2	0.8	96.7	3.3	99.3	0.7
86/87	99.1	0.9	98.6	1.4	99.0	1.0
87/88	99.1	0.9	96.2	3.8	99.3	0.7
88/89	99.0	1.0	96.5	3.5	98.6	1.4
89/90	98.9	1.1	97.3	2.7	98.9	1.1
90/91	98.9	1.1	98.1	1.9	99.3	0.7
91/92	98.7	1.3	96.4	3.6	98.6	1.4
92/93	98.9	1.1	99.3	0.7	97.4	2.6
93/94	98.8	1.2	96.3	3.7	97.3	2.7
94/95	98.8	1.2	99.3	0.7	97.9	2.1
95/96	98.8	1.2	100.0	0.0	97.8	2.2

Table A3 Live Births, Crude Birth Rates and General Fertility Rates by Residence RHA, Alberta, 1985/86-1995/96

RHA	Fiscal Year										
	85/86	86/87	87/88	88/89	89/90	90/91	91/92	92/93	93/94	94/95	95/96
Live births											
1	2,444	2,462	2,374	2,367	2,467	2,433	2,369	2,373	2,312	2,330	2,267
2	1,327	1,283	1,183	1,245	1,272	1,268	1,201	1,166	1,128	1,222	1,213
3	817	880	829	813	885	886	875	890	857	901	830
4	11,954	12,099	11,935	12,189	12,780	12,258	12,281	11,916	11,509	11,483	11,221
5	718	690	729	638	686	662	705	648	647	653	670
6	2,911	3,018	2,804	2,804	2,797	2,827	2,879	2,871	2,726	2,660	2,604
7	1,459	1,363	1,337	1,312	1,317	1,230	1,189	1,144	1,180	1,162	1,074
8	1,267	1,255	1,147	1,167	1,187	1,163	1,231	1,188	1,093	1,185	1,193
9	1,278	1,252	1,115	1,155	1,253	1,221	1,194	1,187	1,174	1,133	1,054
10	12,053	12,116	11,621	11,963	11,981	11,957	11,944	11,365	11,016	10,421	9,945
11	1,382	1,319	1,255	1,290	1,369	1,323	1,365	1,297	1,333	1,249	1,197
12	1,921	1,809	1,789	1,677	1,819	1,681	1,746	1,692	1,657	1,641	1,546
13	1,550	1,446	1,380	1,346	1,368	1,344	1,323	1,305	1,263	1,330	1,295
14	410	392	370	351	354	348	349	303	326	336	325
15	521	516	494	503	546	520	559	514	562	599	528
16	862	746	691	731	701	764	693	653	628	565	563
17	454	436	452	433	499	448	533	478	476	529	543
Province	43,328	43,082	41,505	41,984	43,281	42,333	42,436	40,990	39,887	39,399	38,068
Crude birth rate (per 1,000 population)											
1	18.0	18.0	17.3	17.2	17.8	17.3	16.8	16.7	16.2	16.2	15.7
2	16.7	16.2	15.0	15.7	15.9	15.7	14.8	14.3	13.6	14.5	14.2
3	16.0	17.0	15.7	15.3	16.0	15.4	14.8	14.6	13.6	13.9	12.4
4	17.3	17.3	16.8	16.7	17.0	16.0	15.7	15.0	14.3	14.1	13.5
5	15.8	15.2	16.0	14.0	14.9	14.1	14.7	13.2	13.1	13.0	13.1
6	19.0	19.4	17.9	17.7	17.2	17.1	17.1	16.8	15.7	15.2	14.7
7	14.5	13.7	13.6	13.4	13.5	12.6	12.0	11.5	11.8	11.6	10.5
8	17.9	17.7	16.1	16.1	16.0	15.3	15.8	14.9	13.6	14.2	13.9
9	20.1	19.5	17.1	17.5	18.6	17.7	17.0	16.7	16.3	15.6	14.5
10	17.6	17.4	16.6	16.9	16.5	16.2	15.9	15.0	14.4	13.8	13.2
11	19.3	18.4	17.4	17.7	18.4	17.5	17.6	16.4	16.6	15.5	14.8
12	18.4	17.4	17.1	16.0	17.4	16.0	16.5	15.9	15.6	15.5	14.7
13	*	*	*	*	17.3	16.8	16.4	16.3	15.7	16.2	15.3
14	*	*	*	*	17.3	17.1	17.3	15.1	16.2	16.7	16.1
15	25.2	24.4	22.9	23.1	24.7	23.1	24.5	22.0	23.5	24.3	21.1
16	21.6	20.2	19.0	19.7	18.8	20.2	18.1	17.1	16.7	15.5	15.4
17	30.2	28.8	29.6	28.0	32.0	28.4	33.2	29.1	28.6	31.1	30.7
Province	17.9	17.6	16.8	16.8	17.0	16.3	16.1	15.4	14.8	14.5	13.9
General fertility rate (per 1,000 women aged 15-49)											
1	71.5	72.1	69.3	69.1	71.2	69.5	67.1	66.9	64.5	64.7	62.4
2	65.4	63.0	58.3	61.5	62.3	61.5	58.1	56.5	53.4	56.7	55.4
3	60.2	63.8	58.5	57.2	59.5	57.7	55.5	54.5	50.8	51.7	46.1
4	58.3	58.6	57.1	57.3	58.6	55.0	54.3	52.3	50.0	49.3	47.2
5	64.5	62.3	65.5	57.7	61.3	57.8	60.1	54.0	53.2	52.2	52.6
6	71.1	73.0	67.9	67.3	65.8	65.2	65.2	64.2	60.3	58.3	56.3
7	60.5	57.3	57.0	56.4	57.0	52.8	50.4	47.9	48.7	47.8	43.1
8	65.1	64.8	58.8	58.9	58.6	55.8	57.5	54.4	49.5	51.7	51.1
9	76.8	75.1	66.1	67.6	72.2	68.3	65.3	64.0	62.4	60.1	56.2
10	60.9	60.6	58.0	59.4	58.3	57.5	56.7	53.8	51.9	50.0	47.7
11	76.7	73.1	69.2	70.7	73.2	69.5	70.0	65.1	65.8	61.4	58.6
12	73.1	69.4	68.5	63.9	69.7	64.0	66.1	63.4	61.9	61.5	58.4
13	*	*	*	*	64.9	62.8	61.3	61.1	58.5	60.3	56.9
14	*	*	*	*	67.0	66.2	67.4	59.2	63.2	65.6	63.2
15	95.5	91.4	86.5	87.9	93.9	88.1	93.3	84.1	90.0	92.6	80.4
16	70.2	65.6	61.6	64.4	61.5	66.1	59.0	56.0	54.6	50.5	50.4
17	122.2	116.3	119.8	113.0	130.1	114.5	134.0	117.4	114.6	124.4	123.0
Province	64.2	63.5	61.0	61.1	61.8	59.5	58.8	56.3	54.3	53.5	51.1

Note: * estimations of populations are not available.

Table A4 Live Births and Percent Distribution of Live Births by Age Group of Mother, Age-Specific Fertility Rates and Total Fertility Rates, Alberta, 1985/86 - 1995/96

Fiscal Year	Age Group										Not Stated
	< 15*	15-17	18-19	15-19	20-24	25-29	30-34	35-39	40-44	> 44*	
Live births											
85/86	35	1,039	2,071	3,110	12,008	16,792	8,979	2,152	244	8	0
86/87	31	1,051	2,068	3,119	11,096	16,730	9,575	2,310	213	8	0
87/88	29	970	1,996	2,966	10,180	15,897	9,657	2,499	268	9	0
88/89	34	991	2,078	3,069	9,626	16,047	10,161	2,681	357	9	0
89/90	36	1,036	2,143	3,179	9,664	16,113	10,991	2,983	301	14	0
90/91	37	1,052	2,226	3,278	9,298	15,194	10,819	3,332	363	12	0
91/92	45	1,146	2,206	3,352	9,264	14,727	11,158	3,473	402	15	0
92/93	49	1,122	2,041	3,163	8,794	13,759	11,242	3,550	420	12	1
93/94	37	1,108	1,912	3,020	8,588	13,214	10,910	3,670	435	13	0
94/95	37	984	1,959	2,943	8,232	12,764	11,117	3,809	484	13	0
95/96	28	983	1,931	2,914	7,839	12,122	10,672	3,998	480	15	0
Percent distribution											
85/86	0.1	2.4	4.8	7.2	27.7	38.8	20.7	5.0	0.6	0.0	0.0
86/87	0.1	2.4	4.8	7.2	25.8	38.8	22.2	5.4	0.5	0.0	0.0
87/88	0.1	2.3	4.8	7.1	24.5	38.3	23.3	6.0	0.6	0.0	0.0
88/89	0.1	2.4	4.9	7.3	22.9	38.2	24.2	6.4	0.9	0.0	0.0
89/90	0.1	2.4	5.0	7.3	22.3	37.2	25.4	6.9	0.7	0.0	0.0
90/91	0.1	2.5	5.3	7.7	22.0	35.9	25.6	7.9	0.9	0.0	0.0
91/92	0.1	2.7	5.2	7.9	21.8	34.7	26.3	8.2	0.9	0.0	0.0
92/93	0.1	2.7	5.0	7.7	21.5	33.6	27.4	8.7	1.0	0.0	0.0
93/94	0.1	2.8	4.8	7.6	21.5	33.1	27.4	9.2	1.1	0.0	0.0
94/95	0.1	2.5	5.0	7.5	20.9	32.4	28.2	9.7	1.2	0.0	0.0
95/96	0.1	2.6	5.1	7.7	20.6	31.8	28.0	10.5	1.3	0.0	0.0
Age-specific fertility rate (per 1,000 women in each group)											
Total fertility rate per 1,000 women											
85/86	1,842	0.4	18.9	54.0	33.3	101.4	128.4	78.9	22.8	3.5	0.1
86/87	1,853	0.4	19.3	54.4	33.7	98.5	129.5	81.7	24.2	2.9	0.1
87/88	1,813	0.3	18.2	52.1	32.4	95.3	124.8	80.7	25.8	3.4	0.2
88/89	1,847	0.4	19.0	54.0	33.9	94.2	127.3	83.0	26.6	4.3	0.1
89/90	1,898	0.4	19.8	56.7	35.3	96.2	129.0	87.5	28.1	3.4	0.2
90/91	1,865	0.4	19.7	60.8	36.4	92.9	125.4	84.3	29.8	3.9	0.2
91/92	1,881	0.5	21.1	61.0	37.0	93.4	125.6	86.0	29.7	4.2	0.2
92/93	1,840	0.5	20.5	56.6	34.8	90.4	122.8	86.0	29.4	4.3	0.2
93/94	1,816	0.4	20.1	51.8	32.8	89.5	123.0	84.0	29.5	4.3	0.2
94/95	1,828	0.4	17.5	52.8	31.6	87.6	124.1	87.5	30.2	4.6	0.1
95/96	1,779	0.3	17.1	51.7	30.7	83.9	118.6	87.1	31.1	4.3	0.2

Note: The age-specific fertility rates for age groups <15 and >44 are calculated based on female populations in 10-14 and 44-49 age groups respectively.

Table A5 Age-Specific Fertility Rates by Residence RHA, Alberta, 1993/94- 1995/96

RHA	Total Fertility Rate (per 1,000 women)	Age Group									
		10-14*	15-17	18-19	15-19	20-24	25-29	30-34	35-39	40-44	45-49**
1993/1994											
1	2,218	0.2	28.5	54.7	38.9	117.5	149.9	95.3	36.6	5.5	0.0
2	1,841	0.0	14.3	50.8	28.7	101.2	136.2	77.4	21.6	3.1	0.0
3	1,696	0.0	13.3	42.2	25.5	70.3	108.6	94.1	36.5	4.2	0.0
4	1,629	0.4	14.9	40.6	25.4	68.0	106.9	87.6	33.0	4.8	0.2
5	1,942	0.0	15.3	40.7	24.5	116.1	144.3	78.9	21.9	2.8	0.0
6	2,047	0.6	22.3	63.3	38.6	115.8	146.7	82.8	21.7	3.2	0.6
7	1,721	0.0	13.9	31.0	20.5	86.5	142.0	71.5	20.8	3.1	0.0
8	1,789	0.6	19.4	41.4	27.9	102.2	132.6	70.9	20.9	2.5	0.8
9	2,267	0.6	25.6	62.3	38.9	131.0	166.5	87.3	25.7	4.0	0.0
10	1,695	0.3	20.6	49.9	32.7	75.2	112.5	82.9	31.6	4.3	0.0
11	2,313	0.0	19.9	65.1	37.6	145.5	160.8	85.5	28.0	4.8	0.4
12	2,149	0.4	21.8	65.0	38.4	131.0	156.4	78.9	22.6	2.5	0.0
13	1,991	0.5	28.1	65.8	42.7	127.3	137.7	70.2	16.6	3.2	0.5
14	2,123	0.0	27.3	87.0	51.4	117.8	137.6	92.3	22.5	3.0	0.0
15	2,740	1.9	51.8	140.1	88.6	169.7	150.4	88.0	32.6	18.8	0.0
16	1,858	0.6	26.3	74.7	44.7	109.2	127.7	65.8	21.7	2.6	0.0
17	3,295	1.1	46.0	145.7	84.6	199.2	198.7	111.7	53.3	11.5	0.0
Province	1,816	0.4	20.1	51.8	32.8	89.5	123.0	84.0	29.5	4.3	0.2
1994/1995											
1	2,260	0.5	23.5	65.5	40.2	117.6	156.9	101.2	31.3	5.0	0.0
2	1,988	0.3	17.4	53.7	31.7	107.9	149.9	81.9	22.3	3.6	0.4
3	1,765	0.0	17.2	33.0	23.5	73.4	124.7	94.2	31.6	5.5	0.0
4	1,641	0.1	13.0	38.3	23.2	66.2	108.2	90.7	34.7	5.0	0.2
5	1,935	0.5	17.1	41.8	26.1	99.7	153.1	82.9	21.9	2.7	0.6
6	2,040	0.4	21.2	69.7	40.6	114.2	144.9	82.8	22.7	2.6	0.2
7	1,742	0.0	9.4	38.6	20.5	82.8	150.5	71.7	20.1	2.7	0.0
8	1,889	0.8	17.5	61.5	35.0	94.3	142.1	83.1	21.4	1.5	0.4
9	2,213	0.3	23.4	66.5	39.5	116.3	161.0	98.0	22.1	5.7	0.0
10	1,671	0.3	16.0	47.3	28.7	73.9	107.5	85.9	33.0	5.2	0.1
11	2,201	0.6	16.9	55.2	31.6	126.3	163.7	86.3	25.7	6.6	0.0
12	2,181	0.4	21.2	81.7	44.3	131.4	152.7	80.0	24.4	3.3	0.0
13	2,054	1.1	23.2	75.2	43.8	113.1	150.2	81.6	20.1	2.0	0.0
14	2,276	0.0	24.0	74.9	43.3	143.9	164.0	78.0	20.4	5.7	0.0
15	2,826	2.6	47.7	147.6	86.1	180.9	163.5	98.4	34.8	1.4	0.0
16	1,775	0.0	23.4	50.9	34.3	100.7	120.5	75.8	20.5	3.2	0.0
17	3,655	2.2	53.6	134.4	85.0	219.0	223.7	123.6	54.6	22.0	3.2
Province	1,828	0.4	17.5	52.8	31.6	87.6	124.1	87.5	30.2	4.6	0.1
1995/1996											
1	2,211	0.8	19.1	70.9	39.0	109.2	154.4	97.7	37.1	4.6	0.2
2	1,973	0.0	16.7	52.0	30.1	107.7	147.6	85.3	22.1	1.8	0.0
3	1,599	0.0	13.6	45.9	25.9	57.6	112.4	86.6	33.1	4.3	0.0
4	1,598	0.2	12.3	39.3	22.9	61.8	101.8	91.3	36.7	5.0	0.1
5	1,990	0.5	16.1	64.9	32.4	94.3	161.4	87.4	19.0	3.6	0.0
6	1,997	1.0	23.1	60.7	38.2	106.9	138.1	88.8	24.8	2.4	0.2
7	1,595	0.0	6.6	26.2	13.7	81.3	132.3	68.4	21.3	1.9	0.0
8	1,909	0.0	15.2	58.4	32.2	92.8	145.8	83.2	25.0	2.2	0.7
9	2,160	0.0	20.1	69.4	38.0	120.0	166.3	80.6	23.2	3.7	0.0
10	1,630	0.1	14.7	45.7	27.1	70.3	104.6	86.6	32.2	4.9	0.3
11	2,134	0.3	21.5	65.4	38.1	121.5	148.6	86.7	26.1	5.7	0.0
12	2,108	0.0	30.0	58.0	41.1	121.8	152.0	82.9	20.5	2.9	0.3
13	1,977	0.0	23.3	71.5	41.8	125.4	135.5	70.8	20.4	1.6	0.0
14	2,195	1.1	27.5	71.7	44.3	133.5	152.1	74.7	33.1	1.4	0.0
15	2,490	0.8	53.1	139.9	85.9	170.9	132.2	78.9	27.4	2.7	0.0
16	1,803	0.0	23.6	66.4	40.7	95.6	132.6	70.9	17.1	3.7	0.0
17	3,595	5.2	60.9	159.4	99.3	244.2	178.5	118.0	55.6	23.5	0.0
Province	1,779	0.3	17.1	52.1	30.7	83.9	118.6	87.1	31.1	4.3	0.2

Note * Live births to women less than 15 years of age per 1,000 women aged 10-14.

** Live births to women aged 45 and over per 1,000 women aged 45-49.

Table A6 Stillbirths and Stillbirth Rates by Age Group of Mother, Alberta, 1985/86-1995/96

Fiscal Year	Total	Age Group									
		< 15	15-17	18-19	15-19	20-24	25-29	30-34	35-39	40-44	> 44
Stillbirths											
85/86	237	2	8	13	21	55	87	51	17	4	0
86/87	284	1	13	16	29	71	88	74	19	2	0
87/88	255	0	9	29	38	56	87	53	21	0	0
88/89	301	1	14	17	31	67	119	64	16	3	0
89/90	248	0	6	16	22	49	80	64	30	3	0
90/91	315	1	10	11	21	85	93	82	26	7	0
91/92	295	0	13	18	31	78	81	64	36	5	0
92/93	267	1	10	14	24	61	86	66	28	1	0
93/94	258	0	10	17	27	57	68	68	33	5	0
94/95	287	0	12	11	23	55	79	83	41	6	0
95/96	249	0	6	25	31	37	69	68	37	7	0
Stillbirths (per 100,000 women in each age group)											
Rate per 100,000 women aged 15 - 49.											
85/86	35.1	*	*	33.9	22.5	46.4	66.5	44.8	18.0	*	0.0
86/87	41.9	*	23.8	42.1	31.3	63.1	68.1	63.1	19.9	*	0.0
87/88	37.5	*	*	75.7	41.5	52.4	68.3	44.3	21.7	*	0.0
88/89	43.8	*	26.9	44.2	34.2	65.6	94.4	52.3	15.9	*	0.0
89/90	35.4	*	*	42.3	24.4	48.8	64.1	50.9	28.3	*	0.0
90/91	44.2	*	18.8	30.0	23.3	85.0	76.8	63.9	23.2	*	0.0
91/92	40.9	*	23.9	49.8	34.3	78.7	69.1	49.3	30.8	*	0.0
92/93	36.7	*	18.2	38.9	26.4	62.7	76.8	50.5	23.2	*	0.0
93/94	35.1	*	18.1	46.1	29.3	59.4	63.3	52.3	26.6	*	0.0
94/95	39.0	*	21.4	29.7	24.7	58.5	76.8	65.3	32.5	*	0.0
95/96	33.4	*	*	66.9	32.7	39.6	67.5	55.5	28.8	*	0.0
Stillbirths per 1,000 total births											
85/86	5.4	*	*	6.2	6.7	4.6	5.2	5.6	7.8	*	0.0
86/87	6.5	*	12.2	7.7	9.2	6.4	5.2	7.7	8.2	*	0.0
87/88	6.1	*	*	14.3	12.6	5.5	5.4	5.5	8.3	*	0.0
88/89	7.1	*	13.9	8.1	10.0	6.9	7.4	6.3	5.9	*	0.0
89/90	5.7	*	*	7.4	6.9	5.0	4.9	5.8	10.0	*	0.0
90/91	7.4	*	9.4	4.9	6.4	9.1	6.1	7.5	7.7	*	0.0
91/92	6.9	*	11.2	8.1	9.2	8.3	5.5	5.7	10.3	*	0.0
92/93	6.5	*	8.8	6.8	7.5	6.9	6.2	5.8	7.8	*	0.0
93/94	6.4	*	8.9	8.8	8.9	6.6	5.1	6.2	8.9	*	0.0
94/95	7.2	*	12.0	5.6	7.8	6.6	6.2	7.4	10.6	*	0.0
95/96	6.5	*	*	12.8	10.5	4.7	5.7	6.3	9.2	*	0.0

Note: * indicates unreliable rates due to small numbers.

Table A7 Stillbirths by Residence RHA, Alberta, 1985/86-1995/96

RHA	Fiscal Year										
	85/86	86/87	87/88	88/89	89/90	90/91	91/92	92/93	93/94	94/95	95/96
1	17	21	18	17	11	13	23	22	17	19	15
2	2	8	10	7	10	8	6	5	7	9	10
3	4	7	6	5	3	3	4	2	4	6	9
4	65	86	57	87	62	83	77	74	75	79	75
5	3	5	8	3	8	6	7	7	7	5	2
6	16	16	10	15	10	23	27	17	17	24	20
7	7	14	9	5	14	3	7	8	5	12	6
8	5	6	7	6	11	7	6	10	6	3	7
9	12	10	6	8	6	15	8	7	6	6	8
10	64	67	70	89	68	93	85	68	73	68	49
11	11	8	10	10	6	11	10	8	10	13	9
12	12	7	14	20	8	15	14	11	7	12	9
13	7	6	12	12	14	15	7	13	5	17	16
14	1	7	5	1	4	4	2	4	1	1	0
15	4	6	4	9	2	6	6	3	6	5	2
16	3	6	4	5	5	6	1	4	5	3	5
17	4	4	5	2	6	4	5	4	7	5	7
Province	237	284	255	301	248	315	295	267	258	287	249

Table A8 Induced Abortions by Age, and Age-Specific Induced Abortion Rates, Alberta, 1985/86 - 1995/96

Fiscal Year	Age Group											Not Stated
	Total	< 15	15-17	18-19	15-19	20-24	25-29	30-34	35-39	40-44	> 44	
Number of induced abortions												
85/86	6,356	57	618	885	1,503	2,252	1,351	765	342	78	8	0
86/87	6,248	37	623	904	1,527	2,136	1,339	751	347	103	8	0
87/88	5,206	43	486	781	1,267	1,675	1,201	646	286	84	4	0
88/89	6,588	39	596	1,021	1,617	2,147	1,463	807	393	113	9	0
89/90	6,559	43	510	969	1,479	2,133	1,445	899	430	121	9	0
90/91	6,319	47	513	864	1,377	2,013	1,377	933	434	134	4	0
91/92	7,441	60	679	981	1,660	2,322	1,618	1,067	577	128	9	0
92/93	8,561	71	809	1,094	1,903	2,739	1,831	1,235	632	142	8	0
93/94	9,074	60	886	1,256	2,142	2,867	1,753	1,332	750	162	8	0
94/95	9,075	65	826	1,303	2,129	2,803	1,820	1,300	761	193	4	0
95/96	8,694	59	803	1,136	1,939	2,732	1,795	1,235	736	190	7	1
Age-specific rate (per 1,000 women in each age group)												
Rate per 1,000 women aged 15-49												
85/86	9.4	0.7	11.2	23.1	16.1	19.0	10.3	6.7	3.6	1.1	0.1	
86/87	9.2	0.4	11.4	23.8	16.5	19.0	10.4	6.4	3.6	1.4	0.1	
87/88	7.6	0.5	9.1	20.4	13.8	15.7	9.4	5.4	3.0	1.1	0.1	
88/89	9.6	0.4	11.4	26.5	17.8	21.0	11.6	6.6	3.9	1.4	0.1	
89/90	9.4	0.5	9.7	25.6	16.4	21.2	11.6	7.2	4.1	1.4	0.1	
90/91	8.9	0.5	9.6	23.6	15.3	20.1	11.4	7.3	3.9	1.4	0.1	
91/92	10.3	0.6	12.5	27.1	18.3	23.4	13.8	8.2	4.9	1.3	0.1	
92/93	11.8	0.7	14.8	30.4	20.9	28.2	16.3	9.5	5.2	1.5	0.1	
93/94	12.4	0.6	16.0	34.0	23.3	29.9	16.3	10.3	6.0	1.6	0.1	
94/95	12.3	0.6	14.7	35.1	22.9	29.8	17.7	10.2	6.0	1.8	0.0	
95/96	11.7	0.6	14.0	30.4	20.4	29.2	17.6	10.1	5.7	1.7	0.1	

Table A9 Estimated Pregnancy Rates by Age Group, Alberta, 1985/86 - 1995/96

Fiscal Year	Total	Age Group										Not Stated
		< 15	15-17	18-19	15-19	20-24	25-29	30-34	35-39	40-44	> 44	
Number of estimated pregnancies												
85/86	49,921	94	1,665	2,969	4,634	14,315	18,230	9,795	2,511	326	16	0
86/87	49,614	69	1,687	2,988	4,675	13,303	18,157	10,400	2,676	318	16	0
87/88	46,966	72	1,465	2,806	4,271	11,911	17,185	10,356	2,806	352	13	0
88/89	48,873	74	1,601	3,116	4,717	11,840	17,629	11,032	3,090	473	18	0
89/90	50,088	79	1,552	3,128	4,680	11,846	17,638	11,954	3,443	425	23	0
90/91	48,967	85	1,575	3,101	4,676	11,396	16,664	11,834	3,792	504	16	0
91/92	50,172	105	1,838	3,205	5,043	11,664	16,426	12,289	4,086	535	24	0
92/93	49,818	121	1,941	3,149	5,090	11,594	15,676	12,543	4,210	563	20	1
93/94	49,219	97	2,004	3,185	5,189	11,512	15,035	12,310	4,453	602	21	0
94/95	48,761	102	1,822	3,273	5,095	11,090	14,663	12,500	4,611	683	17	0
95/96	47,011	87	1,792	3,092	4,884	10,608	13,986	11,975	4,771	677	22	1
Estimated pregnancy rate (per 1,000 women in each age group)												
Rate per 1,000 women aged 15-49												
85/86	73.9	1.1	30.2	77.5	49.6	120.9	139.4	86.0	26.6	4.7	0.3	
86/87	73.2	0.8	30.9	78.6	50.5	118.1	140.5	88.7	28.1	4.3	0.3	
87/88	69.0	0.8	27.5	73.2	46.6	111.5	134.9	86.5	29.0	4.5	0.2	
88/89	71.1	0.8	30.7	80.9	52.1	115.9	139.9	90.1	30.7	5.7	0.3	
89/90	71.5	0.9	29.6	82.7	51.9	117.9	141.2	95.1	32.4	4.8	0.4	
90/91	68.8	0.9	29.5	84.6	52.0	113.9	137.5	92.2	33.9	5.4	0.2	
91/92	69.5	1.1	33.8	88.6	55.7	117.6	140.0	94.7	35.0	5.6	0.3	
92/93	68.5	1.2	35.4	87.4	56.0	119.2	139.9	96.0	34.8	5.8	0.3	
93/94	67.0	1.0	36.3	86.3	56.3	120.0	139.9	94.7	35.8	5.9	0.3	
94/95	66.2	1.0	32.5	88.3	54.7	118.0	142.5	98.4	36.6	6.4	0.2	
95/96	63.1	0.8	31.2	82.8	51.5	113.5	136.9	97.7	37.1	6.1	0.2	

Note: Estimated pregnancies include: live births, stillbirths and reported induced abortions.

Table A10 Mean and Median Maternal Age of Live Births, Stillbirths and Induced Abortions, Alberta, 1985/86-1995/96

	Total Live Births	First Live Births	Stillbirths	Induced Abortions
Mean				
85/86	26.5	24.7	26.6	24.1
86/87	26.7	24.9	26.7	24.2
87/88	26.9	25.1	26.4	24.3
88/89	27.1	25.2	26.6	24.4
89/90	27.2	25.3	27.7	24.7
90/91	27.3	25.3	27.5	24.9
91/92	27.4	25.3	26.9	25.0
92/93	27.5	25.6	27.2	24.8
93/94	27.6	25.7	27.7	24.8
94/95	27.7	25.9	28.3	24.9
95/96	27.9	26.0	28.6	25.0
Median				
85/86	26	25	27	23
86/87	27	25	27	23
87/88	27	25	26	23
88/89	27	25	27	23
89/90	27	25	28	23
90/91	27	25	27	24
91/92	28	25	27	24
92/93	28	26	27	23
93/94	28	26	28	23
94/95	28	26	29	24
95/96	28	26	28	24

Table A11 Live Births and Percent Distribution by Live Birth Order, Alberta, 1985/86-1995/96

Fiscal Year	Total	Birth Order						
		1st	2nd	3rd	4th	5th	6th	7+
Live births								
85/86	43,328	17,591	15,441	6,797	2,234	696	271	298
86/87	43,082	17,284	15,264	6,940	2,367	689	274	264
87/88	41,505	16,445	14,632	6,865	2,296	711	284	272
88/89	41,984	16,769	14,662	6,844	2,360	760	283	306
89/90	43,281	17,038	15,124	7,224	2,487	803	327	278
90/91	42,333	16,773	14,605	7,083	2,449	840	312	271
91/92	42,436	16,999	14,585	7,020	2,405	802	340	285
92/93	40,990	16,343	14,206	6,588	2,408	804	348	293
93/94	39,887	15,991	13,878	6,441	2,202	763	309	303
94/95	39,399	16,028	13,550	6,307	2,213	708	310	283
95/96	38,068	15,435	13,232	5,936	2,129	727	294	315
Percent distribution								
85/86		40.6	35.6	15.7	5.2	1.6	0.6	0.7
86/87		40.1	35.4	16.1	5.5	1.6	0.6	0.6
87/88		39.6	35.3	16.5	5.5	1.7	0.7	0.7
88/89		39.9	34.9	16.3	5.6	1.8	0.7	0.7
89/90		39.4	34.9	16.7	5.7	1.9	0.8	0.6
90/91		39.6	34.5	16.7	5.8	2.0	0.7	0.6
91/92		40.1	34.4	16.5	5.7	1.9	0.8	0.7
92/93		39.9	34.7	16.1	5.9	2.0	0.8	0.7
93/94		40.1	34.8	16.1	5.5	1.9	0.8	0.8
94/95		40.7	34.4	16.0	5.6	1.8	0.8	0.7
95/96		40.5	34.8	15.6	5.6	1.9	0.8	0.8

Table A12 Live Births by Live Birth Order and Residence RHA, Alberta, 1993/94-1995/96 -- Continued

Birth Order	Province	Residence RHA							
		1	2	3	4	5	6	7	8
1993/1994									
Total	39,887	2,312	1,128	857	11,509	647	2,726	1,180	1,093
1st	15,991	809	452	303	5,019	226	977	417	435
2nd	13,878	721	369	318	4,223	240	929	400	369
3rd	6,441	442	187	145	1,595	105	503	246	184
4th	2,202	161	61	51	459	39	186	72	68
5+	1,375	179	59	40	213	37	131	45	37
1994/1995									
Total	39,399	2,330	1,222	901	11,483	653	2,660	1,162	1,185
1st	16,028	871	487	347	5,099	229	1,032	396	446
2nd	13,550	723	413	301	4,201	215	874	414	410
3rd	6,307	392	199	151	1,576	129	471	229	213
4th	2,213	192	76	50	434	51	172	84	80
5+	1,301	152	47	52	173	29	111	39	36
1995/1996									
Total	38,068	2,267	1,213	830	11,221	670	2,604	1,074	1,193
1st	15,435	836	509	353	4,913	252	980	376	482
2nd	13,232	700	394	258	4,103	207	852	377	427
3rd	5,936	396	200	137	1,550	125	448	217	182
4th	2,129	163	60	55	461	55	204	62	60
5+	1,336	172	50	27	194	31	120	42	42

Table A12. Live Births by Live Birth Order and Residence RHA, Alberta, 1993/94-1995/96 -- Concluded

Birth Order	Residence RHA								
	9	10	11	12	13	14	15	16	17
1993/1994									
Total	1,174	11,016	1,333	1,657	1,263	326	562	628	476
1st	416	4,682	484	588	490	117	173	277	126
2nd	402	3,862	453	559	426	98	172	226	111
3rd	209	1,696	235	318	222	79	98	87	90
4th	96	547	109	116	80	21	53	28	55
5+	51	229	52	76	45	11	66	10	94
1994/1995									
Total	1,133	10,421	1,249	1,641	1,330	336	599	565	529
1st	397	4,504	459	562	489	139	182	245	144
2nd	404	3,581	428	527	457	97	183	195	127
3rd	198	1,608	227	322	223	61	127	82	99
4th	75	501	81	143	99	21	57	26	71
5+	59	227	54	87	62	18	50	17	88
1995/1996									
Total	1,054	9,945	1,197	1,546	1,295	325	528	563	543
1st	388	4,205	428	540	505	111	184	228	145
2nd	358	3,551	407	532	460	105	159	211	131
3rd	195	1,458	229	262	198	59	98	83	99
4th	58	494	80	125	88	23	44	29	68
5+	55	237	53	87	44	27	43	12	100

Table A13 Pre-term Live Births and Pre-term Live Birth Rate by Residence RHA, Alberta, 1985/86-1995/96

RHA	Fiscal Year										
	85/86	86/87	87/88	88/89	89/90	90/91	91/92	92/93	93/94	94/95	95/96
Pre-term live births											
1	160	169	165	170	159	212	155	152	173	160	146
2	85	86	72	81	74	91	64	66	61	63	66
3	40	51	42	58	48	67	57	53	60	54	48
4	745	797	751	822	876	829	827	757	765	782	801
5	44	26	71	36	35	43	46	42	38	45	39
6	171	183	156	157	198	185	179	186	177	169	192
7	78	72	87	100	87	76	96	62	75	69	89
8	68	75	54	91	73	78	72	83	49	109	70
9	64	77	72	81	72	82	81	72	67	81	83
10	875	867	836	854	836	877	865	917	791	736	754
11	71	80	81	100	85	82	100	88	72	79	65
12	120	102	103	122	132	106	113	90	110	91	106
13	83	68	64	76	83	76	71	69	76	69	77
14	31	14	22	25	13	18	24	22	19	19	27
15	35	32	24	23	41	41	35	43	37	54	46
16	40	47	49	52	33	32	35	39	45	36	37
17	30	28	31	35	40	23	33	30	43	27	31
Province	2,740	2,774	2,680	2,883	2,885	2,918	2,853	2,771	2,658	2,643	2,677
Pre-term live birth rate (per 100 total live births)											
1	6.5	6.9	7.0	7.2	6.4	8.7	6.5	6.4	7.5	6.9	6.4
2	6.4	6.7	6.1	6.5	5.8	7.2	5.3	5.7	5.4	5.2	5.4
3	4.9	5.8	5.1	7.1	5.4	7.6	6.5	6.0	7.0	6.0	5.8
4	6.2	6.6	6.3	6.7	6.9	6.8	6.7	6.4	6.6	6.8	7.1
5	6.1	3.8	9.7	5.6	5.1	6.5	6.5	6.5	5.9	6.9	5.8
6	5.9	6.1	5.6	5.6	7.1	6.5	6.2	6.5	6.5	6.4	7.4
7	5.3	5.3	6.5	7.6	6.6	6.2	8.1	5.4	6.4	5.9	8.3
8	5.4	6.0	4.7	7.8	6.1	6.7	5.8	7.0	4.5	9.2	5.9
9	5.0	6.2	6.5	7.0	5.7	6.7	6.8	6.1	5.7	7.1	7.9
10	7.3	7.2	7.2	7.1	7.0	7.3	7.2	8.1	7.2	7.1	7.6
11	5.1	6.1	6.5	7.8	6.2	6.2	7.3	6.8	5.4	6.3	5.4
12	6.2	5.6	5.8	7.3	7.3	6.3	6.5	5.3	6.6	5.5	6.9
13	5.4	4.7	4.6	5.6	6.1	5.7	5.4	5.3	6.0	5.2	5.9
14	7.6	3.6	5.9	7.1	3.7	5.2	6.9	7.3	5.8	5.7	8.3
15	6.7	6.2	4.9	4.6	7.5	7.9	6.3	8.4	6.6	9.0	8.7
16	4.6	6.3	7.1	7.1	4.7	4.2	5.1	6.0	7.2	6.4	6.6
17	6.6	6.4	6.9	8.1	8.0	5.1	6.2	6.3	9.0	5.1	5.7
Province	6.3	6.4	6.5	6.9	6.7	6.9	6.7	6.8	6.7	6.7	7.0

Table A14 Pre-term Live Births and Pre-term Live Births Rate by Age Group of Mother, Alberta, 1985/86 - 1995/96

Fiscal Year	Total	Age Group										Not Stated
		< 15	15-17	18-19	15-19	20-24	25-29	30-34	35-39	40-44	> 44	
Live births												
85/86	2,740	4	98	160	258	771	992	554	141	19	1	0
86/87	2,774	4	89	158	247	697	1,006	595	199	24	2	0
87/88	2,680	3	62	131	193	691	940	641	185	27	0	0
88/89	2,883	5	90	166	256	665	1,049	677	200	31	0	0
89/90	2,885	2	100	178	278	644	1,018	691	218	29	5	0
90/91	2,918	4	83	162	245	652	971	769	253	24	0	0
91/92	2,853	5	102	168	270	607	911	753	263	39	5	0
92/93	2,771	8	93	145	238	592	856	774	268	34	0	1
93/94	2,658	6	102	134	236	573	821	674	308	40	0	0
94/95	2,643	3	78	143	221	541	805	735	303	33	2	0
95/96	2,677	3	75	153	228	553	789	713	344	44	3	0
Pre-term rate (per 100 total live births)												
85/86	6.3	*	9.4	7.7	8.3	6.4	5.9	6.2	6.6	7.8	*	
86/87	6.4	*	8.5	7.6	7.9	6.3	6.0	6.2	8.6	11.3	*	
87/88	6.5	*	6.4	6.6	6.5	6.8	5.9	6.6	7.4	10.1	*	
88/89	6.9	*	9.1	8.0	8.3	6.9	6.5	6.7	7.5	8.7	*	
89/90	6.7	*	9.7	8.3	8.7	6.7	6.3	6.3	7.3	9.6	*	
90/91	6.9	*	7.9	7.3	7.5	7.0	6.4	7.1	7.6	6.6	*	
91/92	6.7	*	8.9	7.6	8.1	6.6	6.2	6.7	7.6	9.7	*	
92/93	6.8	*	8.3	7.1	7.5	6.7	6.2	6.9	7.5	8.1	*	
93/94	6.7	*	9.2	7.0	7.8	6.7	6.2	6.2	8.4	9.2	*	
94/95	6.7	*	7.9	7.3	7.5	6.6	6.3	6.6	8.0	6.8	*	
95/96	7.0	*	7.6	7.9	7.8	7.1	6.5	6.7	8.6	9.2	*	

Note: * indicates unreliable rates due to small numbers.

Table A15 Live Births, Stillbirths, and Percent Distribution of Live Birth and Stillbirths by Week of Gestation, Alberta, 1985/86-1995/96

Fiscal Year	Total	Week of Gestation									Not Stated
		<21	21-23	24-26	27-29	30-32	33-35	36-38	39-41	>41	
Live births											
85/86	43,328	7	44	85	135	278	998	8,816	30,817	2,148	0
86/87	43,082	5	38	96	131	298	1,009	8,979	30,706	1,819	1
87/88	41,505	6	31	73	140	270	983	8,855	29,539	1,607	1
88/89	41,984	4	27	108	140	299	1,078	9,494	29,395	1,439	0
89/90	43,281	5	42	112	153	310	1,053	9,400	30,622	1,583	1
90/91	42,333	7	47	85	138	306	1,121	9,377	29,952	1,300	0
91/92	42,436	11	36	86	135	302	1,069	9,563	29,913	1,319	2
92/93	40,990	4	48	76	142	269	1,054	9,342	28,813	1,242	0
93/94	39,887	11	52	65	111	283	999	8,608	28,442	1,316	0
94/95	39,399	10	38	92	146	277	1,014	8,823	28,020	979	0
95/96	38,068	14	66	76	116	275	1,013	8,699	26,925	884	0
Percent distribution of live births											
85/86	0.02	0.10	0.20	0.31	0.64	2.30	20.35	71.12	4.96	0.00	
86/87	0.01	0.09	0.22	0.30	0.69	2.34	20.84	71.27	4.22	0.00	
87/88	0.01	0.07	0.18	0.34	0.65	2.37	21.33	71.17	3.87	0.00	
88/89	0.01	0.06	0.26	0.33	0.71	2.57	22.61	70.01	3.43	0.00	
89/90	0.01	0.10	0.26	0.35	0.72	2.43	21.72	70.75	3.66	0.00	
90/91	0.02	0.11	0.20	0.33	0.72	2.65	22.15	70.75	3.07	0.00	
91/92	0.03	0.08	0.20	0.32	0.71	2.52	22.54	70.49	3.11	0.00	
92/93	0.01	0.12	0.19	0.35	0.66	2.57	22.79	70.29	3.03	0.00	
93/94	0.03	0.13	0.16	0.28	0.71	2.50	21.58	71.31	3.30	0.00	
94/95	0.03	0.10	0.23	0.37	0.70	2.57	22.39	71.12	2.48	0.00	
95/96	0.04	0.17	0.20	0.30	0.72	2.66	22.85	70.73	2.32	0.00	
Stillbirths											
85/86	237	12	32	26	11	28	30	47	43	8	0
86/87	284	10	40	34	23	28	33	59	45	11	1
87/88	255	16	38	35	31	24	21	50	35	5	0
88/89	301	13	70	38	33	17	25	55	47	2	1
89/90	248	6	40	28	29	32	28	49	32	4	0
90/91	315	16	70	44	26	36	40	41	37	5	0
91/92	295	21	72	34	22	25	26	51	38	5	1
92/93	267	18	49	31	23	26	33	43	39	4	1
93/94	258	12	50	35	20	22	24	47	44	3	1
94/95	287	16	66	33	34	22	29	33	50	4	0
95/96	249	21	62	22	16	24	35	33	34	2	0
Percent distribution of stillbirths											
85/86	5.1	13.5	11.0	4.6	11.8	12.7	19.8	18.1	3.4	0.0	
86/87	3.5	14.1	12.0	8.1	9.9	11.6	20.8	15.8	3.9	0.4	
87/88	6.3	14.9	13.7	12.2	9.4	8.2	19.6	13.7	2.0	0.0	
88/89	4.3	23.3	12.6	11.0	5.6	8.3	18.3	15.6	0.7	0.3	
89/90	2.4	16.1	11.3	11.7	12.9	11.3	19.8	12.9	1.6	0.0	
90/91	5.1	22.2	14.0	8.3	11.4	12.7	13.0	11.7	1.6	0.0	
91/92	7.1	24.4	11.5	7.5	8.5	8.8	17.3	12.9	1.7	0.3	
92/93	6.7	18.4	11.6	8.6	9.7	12.4	16.1	14.6	1.5	0.4	
93/94	4.7	19.4	13.6	7.8	8.5	9.3	18.2	17.1	1.2	0.4	
94/95	5.6	23.0	11.5	11.8	7.7	10.1	11.5	17.4	1.4	0.0	
95/96	8.4	24.9	8.8	6.4	9.6	14.1	13.3	13.7	0.8	0.0	

Table A16 Induced Abortions by Week of Gestation and Age Group, Alberta, 1993/94 - 1995/96

Age Group	Total	Week of Gestation									
		<9		9-12		13-16		17-20		>20	
		Cases	Percent	Cases	Percent	Cases	Percent	Cases	Percent	Cases	Percent
1993/1994											
<15	60	9	15.0	38	63.3	9	15.0	4	6.7	0	0.0
15-17	886	178	20.1	586	66.1	99	11.2	21	2.4	2	0.2
18-19	1,256	290	23.1	832	66.2	100	8.0	34	2.7	0	0.0
15-19	2,142	468	21.8	1,418	66.2	199	9.3	55	2.6	2	0.1
20-24	2,867	801	27.9	1,814	63.3	187	6.5	63	2.2	2	0.1
25-29	1,753	506	28.9	1,091	62.2	115	6.6	38	2.2	3	0.2
30-34	1,332	471	35.4	786	59.0	56	4.2	18	1.4	1	0.1
35-39	750	257	34.3	434	57.9	43	5.7	14	1.9	2	0.3
40-44	162	72	44.4	79	48.8	9	5.6	1	0.6	1	0.6
> 44	8	2	25.0	5	62.5	1	12.5	0	0.0	0	0.0
Total	9,074	2,586	28.5	5,665	62.4	619	6.8	193	2.1	11	0.1
1994/1995											
<15	65	9	13.8	45	69.2	7	10.8	4	6.2	0	0.0
15-17	826	184	22.3	557	67.4	67	8.1	16	1.9	2	0.2
18-19	1,303	315	24.2	866	66.5	92	7.1	28	2.1	2	0.2
15-19	2,129	499	23.4	1,423	66.8	159	7.5	44	2.1	4	0.2
20-24	2,803	732	26.1	1,841	65.7	171	6.1	56	2.0	3	0.1
25-29	1,820	562	30.9	1,133	62.3	86	4.7	32	1.8	7	0.4
30-34	1,300	415	31.9	790	60.8	72	5.5	23	1.8	0	0.0
35-39	761	244	32.1	460	60.4	32	4.2	24	3.2	1	0.1
40-44	193	68	35.2	103	53.4	17	8.8	3	1.6	2	1.0
> 44	4	2	50.0	2	50.0	0	0.0	0	0.0	0	0.0
Total	9,075	2,531	27.9	5,797	63.9	544	6.0	186	2.0	17	0.2
1995/1996											
<15	59	6	10.2	48	81.4	4	6.8	1	1.7	0	0.0
15-17	803	184	22.9	532	66.3	51	6.4	35	4.4	1	0.1
18-19	1,136	258	22.7	769	67.7	74	6.5	34	3.0	1	0.1
15-19	1,939	442	22.8	1,301	67.1	125	6.4	69	3.6	2	0.1
20-24	2,732	702	25.7	1,800	65.9	160	5.9	66	2.4	4	0.1
25-29	1,795	535	29.8	1,153	64.2	77	4.3	27	1.5	3	0.2
30-34	1,235	444	36.0	705	57.1	58	4.7	27	2.2	1	0.1
35-39	736	278	37.8	408	55.4	34	4.6	16	2.2	0	0.0
40-44	190	73	38.4	106	55.8	9	4.7	2	1.1	0	0.0
> 44	7	1	14.3	6	85.7	0	0.0	0	0.0	0	0.0
Not Stated	1	0	0.0	1	100.0	0	0.0	0	0.0	0	0.0
Total	8,694	2,481	28.5	5,528	63.6	467	5.4	208	2.4	10	0.1

Table A17 Live Births by Extreme Birthweight Categories, Alberta, 1985/86-1995/96

Fiscal Year	Birthweight (grams)							
	<500	500-1000	<1000	<1500	<2500	>4000	>4500	>5000
Live births								
85/86	0	163	163	354	2,339	4,525	670	63
86/87	0	167	167	378	2,387	4,454	644	67
87/88	0	145	145	338	2,300	4,347	639	61
88/89	0	155	155	386	2,458	4,238	562	51
89/90	15	189	204	417	2,523	4,599	685	72
90/91	32	140	172	384	2,527	4,552	657	69
91/92	27	140	167	376	2,474	4,520	634	59
92/93	29	131	160	354	2,359	4,677	712	76
93/94	39	130	169	332	2,279	4,491	673	58
94/95	43	130	173	374	2,213	4,323	603	48
95/96	45	145	190	358	2,283	4,276	657	60
Rate (per 100 total live births)								
85/86	0.00	0.38	0.38	0.82	5.40	10.44	1.55	0.15
86/87	0.00	0.39	0.39	0.88	5.54	10.34	1.49	0.16
87/88	0.00	0.35	0.35	0.81	5.54	10.47	1.54	0.15
88/89	0.00	0.37	0.37	0.92	5.85	10.09	1.34	0.12
89/90	0.03	0.44	0.47	0.96	5.83	10.63	1.58	0.17
90/91	0.08	0.33	0.41	0.91	5.97	10.75	1.55	0.16
91/92	0.06	0.33	0.39	0.89	5.83	10.65	1.49	0.14
92/93	0.07	0.32	0.39	0.86	5.76	11.41	1.74	0.19
93/94	0.10	0.33	0.42	0.83	5.71	11.26	1.69	0.15
94/95	0.11	0.33	0.44	0.95	5.62	10.97	1.53	0.12
95/96	0.12	0.38	0.50	0.94	6.00	11.23	1.73	0.16

Table A18 Low Birth Weight (<2,500 grams) Live Births and Low Birth Weight Live Birth Rate by Age Group of Mother, Alberta, 1985/86 - 1995/96

Fiscal Year	Age Group						
	Total	<20	20-24	25-29	30-34	35-39	>39
Number of low birth weight live births							
85/86	2,339	205	673	876	457	114	14
86/87	2,387	223	630	847	524	144	19
87/88	2,300	166	595	824	537	165	13
88/89	2,458	224	571	879	587	168	29
89/90	2,523	235	565	916	581	194	32
90/91	2,527	224	569	852	659	204	19
91/92	2,474	218	536	804	674	213	29
92/93	2,359	204	513	762	639	212	29
93/94	2,279	212	508	707	583	243	26
94/95	2,213	193	466	654	617	251	32
95/96	2,283	197	478	680	586	306	36
Low birth weight rate (per 100 total live birth)							
85/86	5.4	6.5	5.6	5.2	5.1	5.3	5.6
86/87	5.5	7.1	5.7	5.1	5.5	6.2	8.6
87/88	5.5	5.5	5.8	5.2	5.6	6.6	4.7
88/89	5.9	7.2	5.9	5.5	5.8	6.3	7.9
89/90	5.8	7.3	5.8	5.7	5.3	6.5	10.2
90/91	6.0	6.8	6.1	5.6	6.1	6.1	5.1
91/92	5.8	6.4	5.8	5.5	6.0	6.1	7.0
92/93	5.8	6.4	5.8	5.5	5.7	6.0	6.7
93/94	5.7	6.9	5.9	5.4	5.3	6.6	5.8
94/95	5.6	6.5	5.7	5.1	5.6	6.6	6.4
95/96	6.0	6.7	6.1	5.6	5.5	7.7	7.3

Table A19 Low Birth Weight Rate (<2,500 grams) by Residence RHA, Alberta, 1985/86-1995/96

RHA	Fiscal Year										
	85/86	86/87	87/88	88/89	89/90	90/91	91/92	92/93	93/94	94/95	95/96
Number of low birth weight live births											
1	123	139	117	129	129	150	130	120	136	127	128
2	57	56	45	67	60	68	54	63	50	48	74
3	40	46	39	51	37	66	57	57	58	49	45
4	692	724	705	775	821	789	791	701	717	678	732
5	36	23	43	32	35	37	36	34	29	39	35
6	154	184	153	153	179	156	162	167	146	155	170
7	64	71	79	73	75	68	70	53	62	55	55
8	71	63	47	78	61	66	78	67	55	83	59
9	70	67	60	64	61	67	68	63	58	59	68
10	681	676	712	686	713	725	683	709	610	607	614
11	64	73	63	81	65	68	87	79	74	66	60
12	111	81	88	91	96	80	88	78	98	74	84
13	77	67	59	70	85	78	71	60	75	70	63
14	22	13	17	23	12	16	17	14	18	13	25
15	24	37	20	26	32	32	28	30	34	39	25
16	34	38	37	36	35	33	30	41	34	24	25
17	19	29	16	23	27	28	24	23	25	27	21
Province	2,339	2,387	2,300	2,458	2,523	2,527	2,474	2,359	2,279	2,213	2,283
Low birth weight rate (per 100 total live births)											
1	5.0	5.6	4.9	5.4	5.2	6.2	5.5	5.1	5.9	5.5	5.6
2	4.3	4.4	3.8	5.4	4.7	5.4	4.5	5.4	4.4	3.9	6.1
3	4.9	5.2	4.7	6.3	4.2	7.4	6.5	6.4	6.8	5.4	5.4
4	5.8	6.0	5.9	6.4	6.4	6.4	6.4	5.9	6.2	5.9	6.5
5	5.0	3.3	5.9	5.0	5.1	5.6	5.1	5.2	4.5	6.0	5.2
6	5.3	6.1	5.5	5.5	6.4	5.5	5.6	5.8	5.4	5.8	6.5
7	4.4	5.2	5.9	5.6	5.7	5.5	5.9	4.6	5.3	4.7	5.1
8	5.6	5.0	4.1	6.7	5.1	5.7	6.3	5.6	5.0	7.0	4.9
9	5.5	5.4	5.4	5.5	4.9	5.5	5.7	5.3	4.9	5.2	6.5
10	5.7	5.6	6.1	5.7	6.0	6.1	5.7	6.2	5.5	5.8	6.2
11	4.6	5.5	5.0	6.3	4.7	5.1	6.4	6.1	5.6	5.3	5.0
12	5.8	4.5	4.9	5.4	5.3	4.8	5.0	4.6	5.9	4.5	5.4
13	5.0	4.6	4.3	5.2	6.2	5.8	5.4	4.6	5.9	5.3	4.9
14	5.4	3.3	4.6	6.6	3.4	4.6	4.9	4.6	5.5	3.9	7.7
15	4.6	7.2	4.0	5.2	5.9	6.2	5.0	5.8	6.0	6.5	4.7
16	3.9	5.1	5.4	4.9	5.0	4.3	4.3	6.3	5.4	4.2	4.4
17	4.2	6.7	3.5	5.3	5.4	6.3	4.5	4.8	5.3	5.1	3.9
Province	5.4	5.5	5.5	5.9	5.8	6.0	5.8	5.8	5.7	5.6	6.0

Table A20 Low Birth Weight Rate and Pre-term Birth Rate of Multiple Birth, Alberta, 1985/86 - 1995/96

Fiscal Year	Number of Live Multiple Birth Rate		<500 grams		<2500 grams		Pre-term	
	Multiple Births	per 100 Live Births	Cases	Percent	Cases	Percent	Cases	Percent
85/86	792	1.8	0	0.0	380	48.0	352	44.4
86/87	852	2.0	0	0.0	410	48.1	398	46.7
87/88	851	2.1	0	0.0	425	49.9	398	46.8
88/89	846	2.0	0	0.0	447	52.8	449	53.1
89/90	928	2.1	11	1.2	476	51.3	453	48.8
90/91	874	2.1	10	1.1	441	50.5	438	50.1
91/92	897	2.1	4	0.4	488	54.4	470	52.4
92/93	886	2.2	8	0.9	441	49.8	395	44.6
93/94	888	2.2	3	0.3	406	45.7	403	45.4
94/95	870	2.2	11	1.3	433	49.8	419	48.2
95/96	913	2.4	11	1.2	487	53.3	515	56.4

Table A21 Live Births and Percent Distribution by Place of Birth, Alberta, 1985/86-1995/96

Fiscal Year	Total	Place of Birth			
		Hospital	Home	Other*	Not Stated
Live Birth					
85/86	43,328	43,139	170	19	0
86/87	43,082	42,865	193	24	0
87/88	41,505	41,354	130	21	0
88/89	41,984	41,750	192	39	3
89/90	43,281	43,033	181	66	1
90/91	42,333	42,113	173	47	0
91/92	42,436	42,243	160	32	1
92/93	40,990	40,758	195	36	1
93/94	39,887	39,664	192	31	0
94/95	39,399	39,113	240	46	0
95/96	38,068	37,732	283	53	0
Percent Distribution					
85/86		99.56	0.39	0.04	0.00
86/87		99.50	0.45	0.06	0.00
87/88		99.64	0.31	0.05	0.00
88/89		99.44	0.46	0.09	0.01
89/90		99.43	0.42	0.15	0.00
90/91		99.48	0.41	0.11	0.00
91/92		99.55	0.38	0.08	0.00
92/93		99.43	0.48	0.09	0.00
93/94		99.44	0.48	0.08	0.00
94/95		99.27	0.61	0.12	0.00
95/96		99.12	0.74	0.14	0.00

Note: * 'Other' includes births En Route, at Nursing Homes, and Other.

Table A22 Live Births and Percent Distribution of Live Birth by Primary Birth Attendant, Alberta, 1985/86-1995/96

Fiscal Year	Total	Primary Birth Attendant				
		Physician	Nurse	Midwife	Other	Not Stated
Live Birth						
85/86	43,328	43,257	2	4	60	5
86/87	43,082	42,977	2	6	94	3
87/88	41,505	41,430	7	49	11	8
88/89	41,984	41,922	5	40	13	4
89/90	43,281	43,197	4	56	22	2
90/91	42,333	42,273	2	37	18	3
91/92	42,436	42,377	3	43	8	5
92/93	40,990	40,879	22	67	16	6
93/94	39,887	39,786	11	66	16	8
94/95	39,399	39,243	27	101	25	3
95/96	38,067	37,867	9	152	34	5
Percent Distribution						
85/86		99.84	0.00	0.01	0.14	0.01
86/87		99.76	0.00	0.01	0.22	0.01
87/88		99.82	0.02	0.12	0.03	0.02
88/89		99.85	0.01	0.10	0.03	0.01
89/90		99.81	0.01	0.13	0.05	0.00
90/91		99.86	0.00	0.09	0.04	0.01
91/92		99.86	0.01	0.10	0.02	0.01
92/93		99.73	0.05	0.16	0.04	0.01
93/94		99.75	0.03	0.17	0.04	0.02
94/95		99.60	0.07	0.26	0.06	0.01
95/96		99.47	0.02	0.40	0.09	0.01

Table A23 Induced Abortions by Facility Type, Alberta, 1985/86 - 1995/96

Fiscal Year	Total	Acute Care Hospital		Private Clinic	
		Cases	Percent	Cases	Percent
85/86	6,356	6,356	100.0	0	0.0
86/87	6,248	6,248	100.0	0	0.0
87/88	5,206	5,206	100.0	0	0.0
88/89	6,588	6,588	100.0	0	0.0
89/90	6,559	6,559	100.0	0	0.0
90/91	6,319	6,319	100.0	0	0.0
91/92	7,441	6,326	85.0	1,115	15.0
92/93	8,561	6,099	71.2	2,462	28.8
93/94	9,074	6,535	72.0	2,539	28.0
94/95	9,075	6,846	75.4	2,229	24.6
95/96	8,694	6,410	73.7	2,284	26.3

Table A24 Induced Abortions by Facility Regions, Alberta, 1985/86 - 1995/96

Fiscal Year	Total	Edmonton		Calgary		Rural Areas	
		(HOSPITALS AND CLINICS)		(HOSPITALS AND CLINICS)		(HOSPITALS)	
	Cases	Cases	Percent	Cases	Percent	Cases	Percent
85/86	6,356	2,312	36.4	3,028	47.6	1,016	16.0
86/87	6,248	1,818	29.1	3,208	51.3	1,222	19.6
87/88	5,206	1,282	24.6	2,937	56.4	987	19.0
88/89	6,588	2,201	33.4	3,313	50.3	1,074	16.3
89/90	6,559	2,384	36.3	3,264	49.8	911	13.9
90/91	6,319	2,369	37.5	3,287	52.0	663	10.5
91/92	7,441	3,113	41.8	3,632	48.8	696	9.4
92/93	8,561	3,538	41.3	4,587	53.6	436	5.1
93/94	9,074	3,711	40.9	4,841	53.4	522	5.8
94/95	9,075	3,641	40.1	4,843	53.4	591	6.5
95/96	8,694	3,449	39.7	4,746	54.6	499	5.7

Table A25 Induced Abortions by Week of Gestation and Facility Type, Alberta, 1985/86 - 1995/96

Fiscal Year	Total Cases	Week of Gestation									
		<9		9-12		13-16		17-20		>20	
		Cases	Percent	Cases	Percent	Cases	Percent	Cases	Percent	Cases	Percent
All Facilities											
85/86	6,356	1,808	28.4	4,007	63.0	402	6.3	132	2.1	7	0.1
86/87	6,248	1,585	25.4	4,059	65.0	420	6.7	180	2.9	4	0.1
87/88	5,206	1,396	26.8	3,195	61.4	417	8.0	187	3.6	11	0.2
88/89	6,588	1,821	27.6	4,205	63.8	404	6.1	150	2.3	8	0.1
89/90	6,559	1,864	28.4	4,399	67.1	246	3.8	44	0.7	6	0.1
90/91	6,319	1,781	28.2	4,282	67.8	207	3.3	44	0.7	5	0.1
91/92	7,441	1,694	22.8	5,221	70.2	457	6.1	65	0.9	4	0.1
92/93	8,561	2,500	29.2	5,246	61.3	649	7.6	161	1.9	5	0.1
93/94	9,074	2,586	28.5	5,665	62.4	619	6.8	193	2.1	11	0.1
94/95	9,075	2,531	27.9	5,797	63.9	544	6.0	186	2.0	17	0.2
95/96	8,694	2,481	28.5	5,528	63.6	467	5.4	208	2.4	10	0.1
Acute Care Hospitals											
85/86	6,356	1,808	28.4	4,007	63.0	402	6.3	132	2.1	7	0.1
86/87	6,248	1,585	25.4	4,059	65.0	420	6.7	180	2.9	4	0.1
87/88	5,206	1,396	26.8	3,195	61.4	417	8.0	187	3.6	11	0.2
88/89	6,588	1,821	27.6	4,205	63.8	404	6.1	150	2.3	8	0.1
89/90	6,559	1,864	28.4	4,399	67.1	246	3.8	44	0.7	6	0.1
90/91	6,319	1,781	28.2	4,282	67.8	207	3.3	44	0.7	5	0.1
91/92	6,326	1,561	24.7	4,537	71.7	186	2.9	38	0.6	4	0.1
92/93	6,099	2,003	32.8	3,934	64.5	112	1.8	48	0.8	2	0.0
93/94	6,535	1,992	30.5	4,359	66.7	141	2.2	35	0.5	8	0.1
94/95	6,846	1,869	27.3	4,765	69.6	154	2.2	47	0.7	11	0.2
95/96	6,410	1,467	22.9	4,755	74.2	130	2.0	54	0.8	4	0.1
Private Clinics											
91/92	1,115	133	11.9	684	61.3	271	24.3	27	2.4	0	0.0
92/93	2,462	497	20.2	1,312	53.3	537	21.8	113	4.6	3	0.1
93/94	2,539	594	23.4	1,306	51.4	478	18.8	158	6.2	3	0.1
94/95	2,229	662	29.7	1,032	46.3	390	17.5	139	6.2	6	0.3
95/96	2,284	1,014	44.4	773	33.8	337	14.8	154	6.7	6	0.3

Table A26 Induced Abortions by Week of Gestation and Facility Region, Alberta, 1985/86 - 1995/96

	Week of Gestation											
	Total		<9		9-12		13-16		17 - 20		>20	
	Cases	Cases	Percent	Cases	Percent	Cases	Percent	Cases	Percent	Cases	Percent	
All Alberta (Hospitals and Clinics*)												
85/86	6,356	1,808	28.4	4,007	63.0	402	6.3	132	2.1	7	0.1	
86/87	6,248	1,585	25.4	4,059	65.0	420	6.7	180	2.9	4	0.1	
87/88	5,206	1,396	26.8	3,195	61.4	417	8.0	187	3.6	11	0.2	
88/89	6,588	1,821	27.6	4,205	63.8	404	6.1	150	2.3	8	0.1	
89/90	6,559	1,864	28.4	4,399	67.1	246	3.8	44	0.7	6	0.1	
90/91	6,319	1,781	28.2	4,282	67.8	207	3.3	44	0.7	5	0.1	
91/92	7,441	1,694	22.8	5,221	70.2	457	6.1	65	0.9	4	0.1	
92/93	8,561	2,500	29.2	5,246	61.3	649	7.6	161	1.9	5	0.1	
93/94	9,074	2,586	28.5	5,665	62.4	619	6.8	193	2.1	11	0.1	
94/95	9,075	2,531	27.9	5,797	63.9	544	6.0	186	2.0	17	0.2	
95/96	8,694	2,481	28.5	5,528	63.6	467	5.4	208	2.4	10	0.1	
Edmonton (Hospitals and Clinics*)												
85/86	2,312	709	30.7	1,497	64.7	90	3.9	15	0.6	1	0.0	
86/87	1,818	600	33.0	1,139	62.7	67	3.7	10	0.6	2	0.1	
87/88	1,282	504	39.3	714	55.7	53	4.1	9	0.7	2	0.2	
88/89	2,201	600	27.3	1,515	68.8	76	3.5	10	0.5	0	0.0	
89/90	2,384	648	27.2	1,667	69.9	54	2.3	11	0.5	4	0.2	
90/91	2,369	483	20.4	1,802	76.1	58	2.4	22	0.9	4	0.2	
91/92	3,113	473	15.2	2,334	75.0	267	8.6	36	1.2	3	0.1	
92/93	3,538	460	13.0	2,666	75.4	365	10.3	44	1.2	3	0.1	
93/94	3,711	552	14.9	2,803	75.5	320	8.6	31	0.8	5	0.1	
94/95	3,641	691	19.0	2,689	73.9	214	5.9	41	1.1	6	0.2	
95/96	3,449	814	23.6	2,421	70.2	176	5.1	33	1.0	5	0.1	
Calgary (Hospitals and Clinics*)												
85/86	3,028	789	26.1	1,850	61.1	271	8.9	112	3.7	6	0.2	
86/87	3,208	587	18.3	2,143	66.8	310	9.7	166	5.2	2	0.1	
87/88	2,937	579	19.7	1,836	62.5	337	11.5	177	6.0	8	0.3	
88/89	3,313	862	26.0	2,015	60.8	292	8.8	137	4.1	7	0.2	
89/90	3,264	873	26.7	2,197	67.3	160	4.9	33	1.0	1	0.0	
90/91	3,287	1,073	32.6	2,060	62.7	131	4.0	22	0.7	1	0.0	
91/92	3,632	982	27.0	2,445	67.3	175	4.8	29	0.8	1	0.0	
92/93	4,587	1,850	40.3	2,349	51.2	273	6.0	114	2.5	1	0.0	
93/94	4,841	1,800	37.2	2,584	53.4	290	6.0	161	3.3	6	0.1	
94/95	4,843	1,576	32.5	2,804	57.9	308	6.4	144	3.0	11	0.2	
95/96	4,746	1,460	30.8	2,827	59.6	280	5.9	175	3.7	4	0.1	
Rural Hospitals												
85/86	1,016	310	30.5	660	65.0	41	4.0	5	0.5	0	0.0	
86/87	1,222	398	32.6	777	63.6	43	3.5	4	0.3	0	0.0	
87/88	987	313	31.7	645	65.3	27	2.7	1	0.1	1	0.1	
88/89	1,074	359	33.4	675	62.8	36	3.4	3	0.3	1	0.1	
89/90	911	343	37.7	535	58.7	32	3.5	0	0.0	1	0.1	
90/91	663	225	33.9	420	63.3	18	2.7	0	0.0	0	0.0	
91/92	696	239	34.3	442	63.5	15	2.2	0	0.0	0	0.0	
92/93	436	190	43.6	231	53.0	11	2.5	3	0.7	1	0.2	
93/94	522	234	44.8	278	53.3	9	1.7	1	0.2	0	0.0	
94/95	591	264	44.7	304	51.4	22	3.7	1	0.2	0	0.0	
95/96	499	207	41.5	280	56.1	11	2.2	0	0.0	1	0.2	

Note: The clinics opened in 1991/92.

Table A27 Cesarean Section Rate and Assisted Delivery Rates, Alberta, 1985/86 - 1995/96

Fiscal Year	Non-Assisted Vaginal	C-Section	Episiotomy	Delivery Type					Other Assisted
				Forceps	Vacuum Extraction	Induction	Assisted Breech		
Number of hospital deliveries									
85/86	9,898	7,223	21,422	6,073	188	5,797	414	3,366	
86/87	8,876	7,178	20,178	5,766	352	6,225	399	3,375	
87/88	7,723	7,212	16,776	5,031	744	4,990	351	2,666	
88/89	7,394	7,076	16,893	4,898	1,064	5,112	357	2,733	
89/90	6,857	7,133	18,666	4,726	1,770	7,280	419	5,550	
90/91	6,120	6,796	17,175	4,061	2,428	6,958	407	5,566	
91/92	5,950	6,894	15,275	3,418	2,621	6,922	398	5,950	
92/93	5,071	6,553	12,669	3,076	2,988	6,707	322	5,766	
93/94	4,020	6,220	11,279	2,974	3,106	7,843	376	5,307	
94/95	4,128	6,227	9,991	2,878	3,296	8,055	343	5,679	
95/96	3,879	6,021	8,386	2,499	3,557	7,562	309	5,992	
Rate per 100 hospital deliveries									
85/86	22.7	16.5	49.0	13.9	0.4	13.3	0.9	7.7	
86/87	20.5	16.6	46.5	13.3	0.8	14.4	0.9	7.8	
87/88	18.5	17.3	40.2	12.1	1.8	12.0	0.8	6.4	
88/89	17.5	16.7	40.0	11.6	2.5	12.1	0.8	6.5	
89/90	15.7	16.4	42.8	10.8	4.1	16.7	1.0	12.7	
90/91	14.3	15.9	40.1	9.5	5.7	16.3	1.0	13.0	
91/92	14.0	16.2	35.8	8.0	6.1	16.2	0.9	14.0	
92/93	12.4	16.0	30.9	7.5	7.3	16.3	0.8	14.1	
93/94	10.1	15.6	28.2	7.4	7.8	19.6	0.9	13.3	
94/95	10.4	15.8	25.3	7.3	8.3	20.4	0.9	14.4	
95/96	10.2	15.9	22.1	6.6	9.4	19.9	0.8	15.8	

Note: For criteria of the "Delivery Type" categories, see the end note of the INTRODUCTION section of this report.

Table A28 Cesarean Section Rates and Assisted Delivery Rates by Residence RHA, Alberta, 1993/94 - 1995/96

RHA	Non-Assisted Vaginal	C-Section	Episiotomy	Delivery Type			Assisted Breech	Other Assisted
				Forceps	Vacuum Extraction	Induction		
1993/1994								
1	8.2	12.6	19.7	6.4	8.1	6.6	1.4	27.1
2	9.2	10.1	21.6	3.0	9.3	17.4	1.0	11.0
3	9.9	17.9	23.8	4.4	7.9	17.8	0.7	13.9
4	7.1	16.1	26.6	8.1	10.1	16.7	1.0	24.9
5	15.1	18.4	26.3	8.2	6.6	16.7	1.3	17.2
6	14.1	17.8	23.6	6.2	1.5	17.8	1.2	22.6
7	19.7	19.1	38.3	11.6	4.9	18.0	0.8	6.1
8	12.3	14.3	26.7	6.3	7.5	24.9	0.9	4.9
9	13.0	12.4	30.9	7.2	6.6	22.4	1.0	7.6
10	8.0	15.2	31.3	8.2	7.5	25.7	0.9	1.6
11	10.6	14.1	28.7	4.7	8.2	19.8	0.6	11.5
12	10.6	16.0	29.7	6.2	10.2	21.0	0.5	8.6
13	16.4	14.2	36.2	4.1	3.1	25.0	0.4	3.1
14	26.4	22.6	26.4	4.4	8.5	9.7	0.6	0.9
15	17.3	12.6	25.9	5.0	5.6	24.5	0.7	14.4
16	26.4	24.7	46.1	19.2	1.7	13.8	0.0	3.8
17	10.5	12.2	14.5	2.6	8.1	13.0	0.6	1.5
Province	10.1	15.6	28.2	7.4	7.8	19.6	0.9	13.3
1994/1995								
1	10.2	12.5	14.3	6.3	9.0	7.1	1.3	29.9
2	6.8	9.1	19.6	2.9	11.5	13.7	1.0	12.4
3	9.0	14.8	24.1	7.2	8.8	18.9	0.8	15.1
4	7.4	17.1	24.6	8.8	10.4	18.4	0.8	26.1
5	16.7	18.3	22.5	6.7	5.0	15.2	1.1	17.8
6	12.9	16.6	20.6	4.7	2.1	18.1	1.5	25.0
7	20.4	20.3	31.9	10.1	3.9	20.6	1.1	7.9
8	11.9	13.4	20.6	6.9	8.7	27.5	0.4	10.6
9	11.8	16.7	26.1	4.7	7.2	22.3	0.8	6.8
10	8.5	14.8	29.5	8.3	8.4	25.3	0.9	1.7
11	11.6	15.0	23.6	4.0	10.2	24.5	1.0	11.5
12	10.9	16.0	26.2	6.1	8.5	23.3	0.6	7.1
13	17.9	14.7	29.8	3.0	4.9	22.5	0.4	2.7
14	20.7	21.0	27.7	3.0	6.7	16.1	0.0	0.6
15	21.1	12.4	24.0	3.2	4.4	30.0	0.5	10.6
16	28.3	24.0	46.1	16.8	6.5	12.9	0.4	6.5
17	14.9	11.2	15.7	2.9	7.3	19.6	0.4	0.6
Province	10.4	15.8	25.3	7.3	8.3	20.4	0.9	14.4
1995/1996								
1	10.1	12.6	14.7	6.4	9.1	7.8	1.4	31.6
2	8.6	9.4	15.9	2.3	8.7	11.1	1.4	12.5
3	9.3	17.3	22.0	6.8	9.8	18.9	0.7	14.8
4	7.9	16.7	21.7	7.8	11.3	16.3	1.0	30.9
5	15.2	16.7	21.2	7.7	8.6	18.7	0.7	18.0
6	10.8	15.9	20.9	4.5	1.4	20.4	1.5	19.5
7	14.1	20.2	26.0	9.0	5.0	20.6	0.7	6.4
8	13.0	13.0	21.6	6.1	11.3	24.0	0.4	8.6
9	13.1	14.7	21.8	4.5	7.4	24.1	0.5	8.1
10	8.3	15.9	25.1	7.6	9.5	25.1	0.6	3.8
11	10.5	14.9	18.8	4.3	10.4	27.8	0.3	12.4
12	10.5	17.3	19.8	5.2	13.5	23.5	0.8	4.0
13	14.4	14.3	23.5	2.1	5.9	24.7	0.2	2.9
14	21.9	20.0	22.9	2.9	7.9	13.3	0.6	1.3
15	21.4	15.6	20.8	2.9	5.4	27.6	0.4	7.1
16	32.2	24.7	42.4	10.7	13.1	11.8	0.0	0.2
17	17.1	10.4	13.2	3.1	10.9	20.3	0.0	1.2
Province	10.2	15.9	22.1	6.6	9.4	19.9	0.8	15.8

Note: For criteria of the "Delivery Type" categories, see the end note of the INTRODUCTION section of this report.

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